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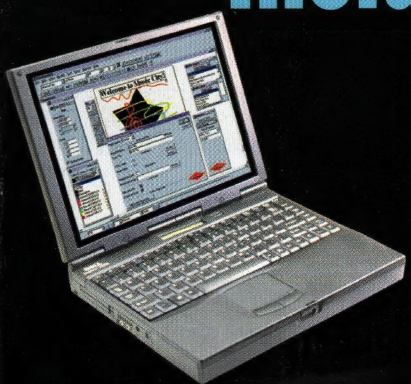

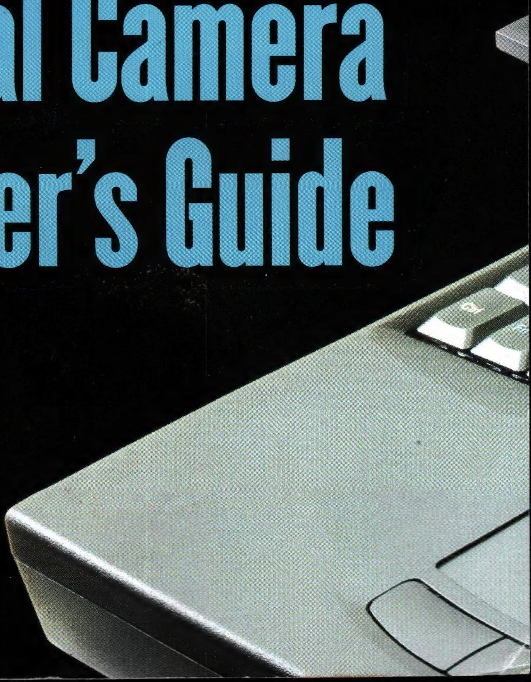

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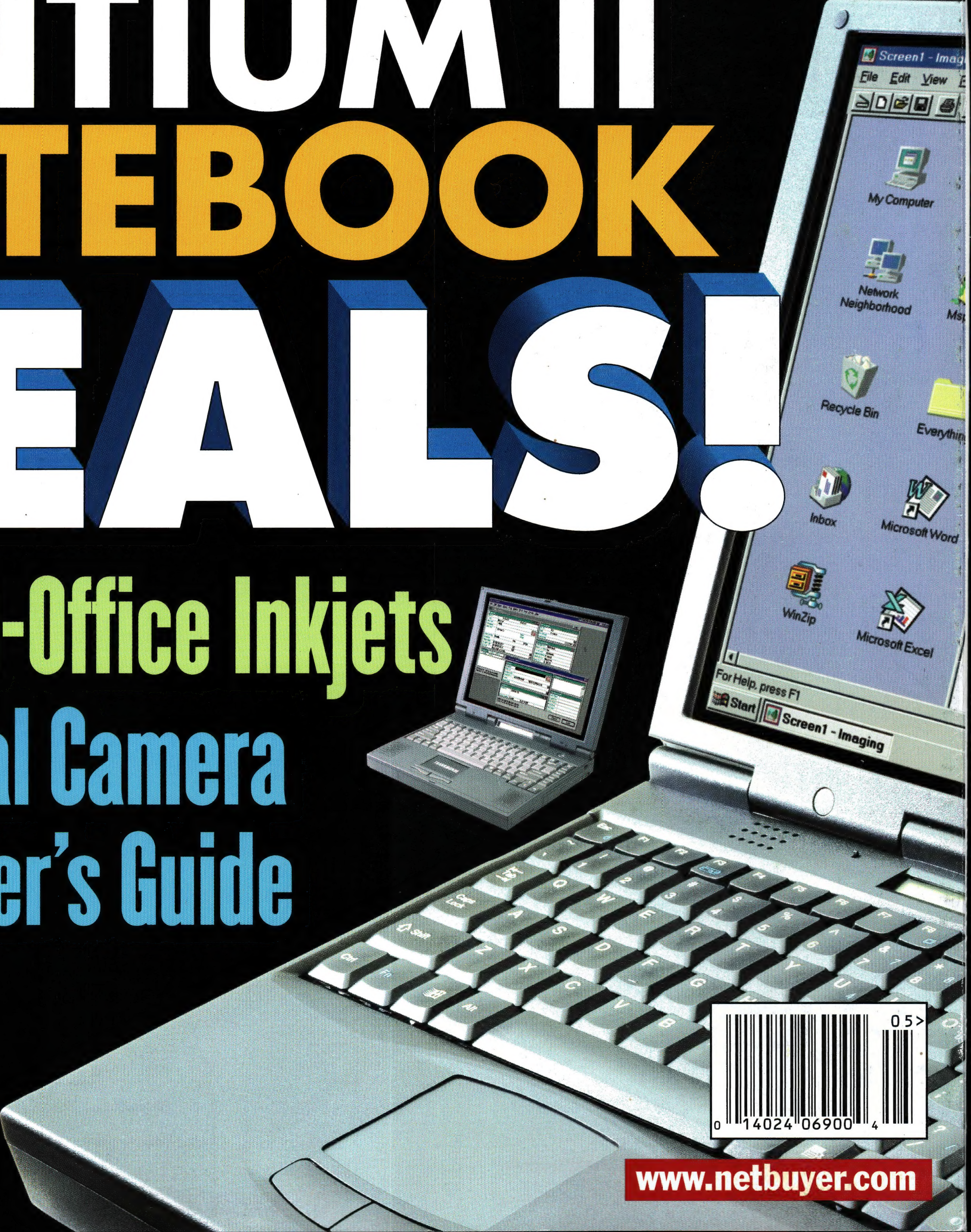
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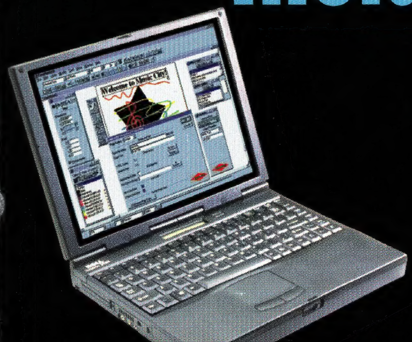

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104-key enhanced keyboard
Microsoft IntelliMouse™, USB connections
Microsoft Windows® 95 and MS® Plus!
Microsoft Office 97 Small Business Edition
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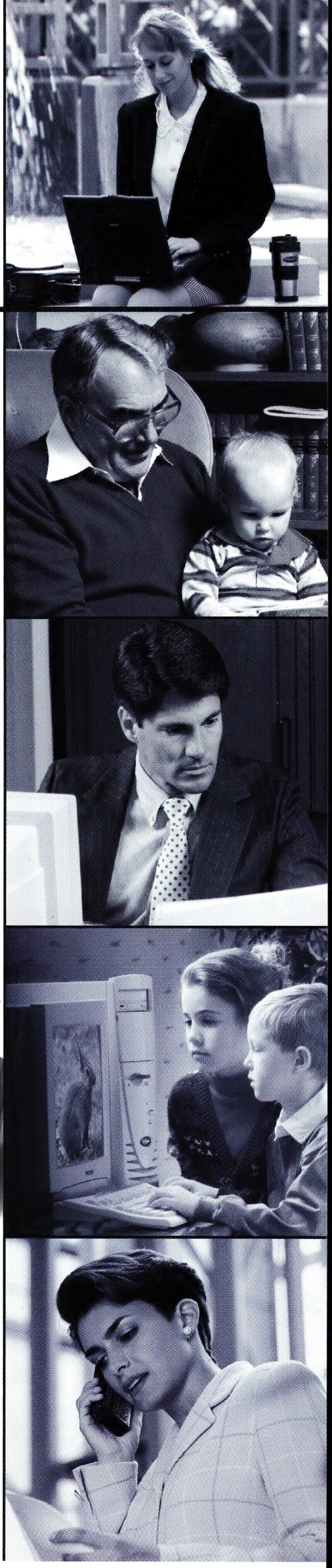

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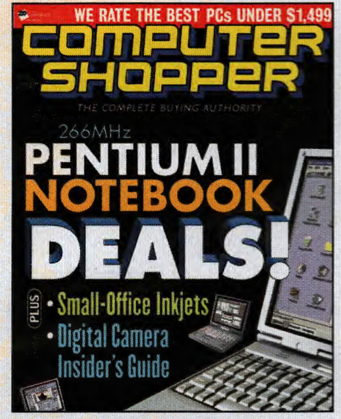

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As this month's Mobile Computing section shows, notebooks aren't lightweights anymore when it comes to Pentium II processing power. If you prefer a thrifty Pentium II-class desktop, we test five fully loaded systems for under $1,499.

Cover photography by Chris Gould

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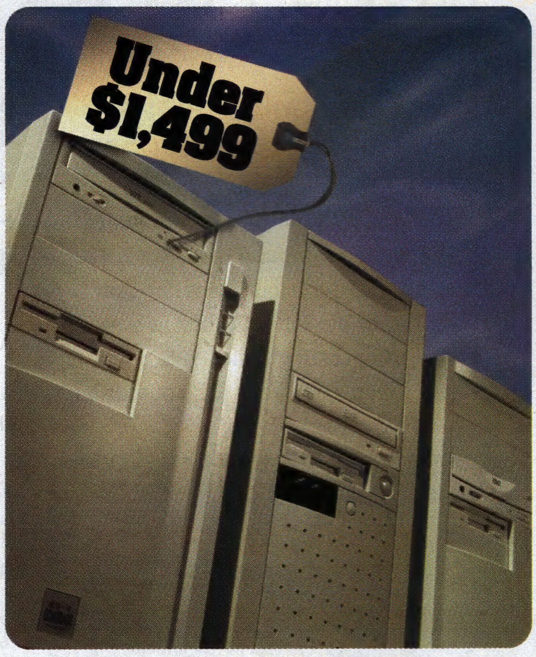
158 Purchasing Power for Under $1,499

by Amee Abel • These affordably priced systems pack a powerful punch without sacrificing performance. We test five well-equipped desktops featuring heavy-duty CPU choices from Intel, AMD, and Cyrix.

172 SOHO Printers Ink the Deal

by Michael J. Zulich • Inkjet printers continue to improve in capability, speed, and economy, competing with entry-level lasers for your small-office and home-office dollars. Expect sharp text quality and color output—and some support of large-format printing—from the six color inkjets we evaluate in this roundup.



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A flood of new CPUs hits the mobile market, as Dell, Gateway, Quantex, and Transmonde unveil the first 266MHz Intel Pentium II notebooks, while affordable models from WinBook and Compaq carry the AMD K6 and Cyrix MediaGX, respectively.

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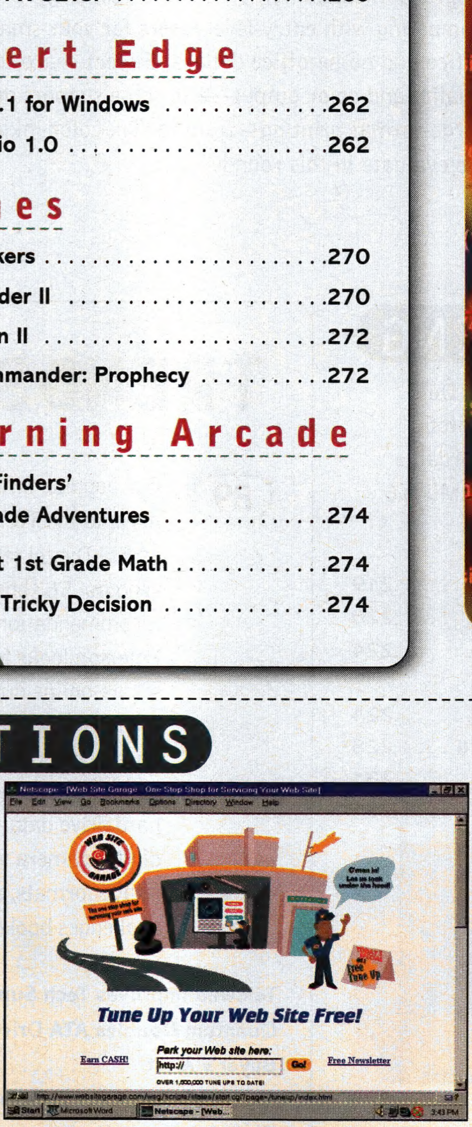

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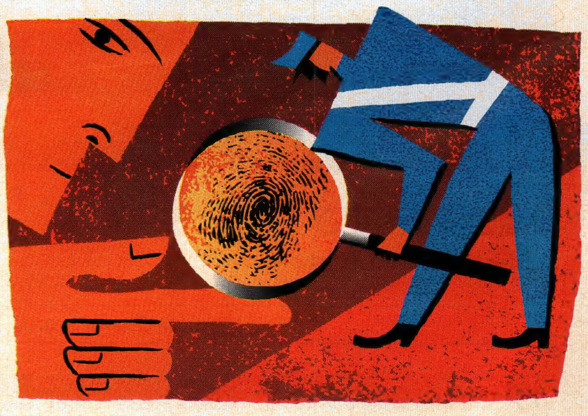
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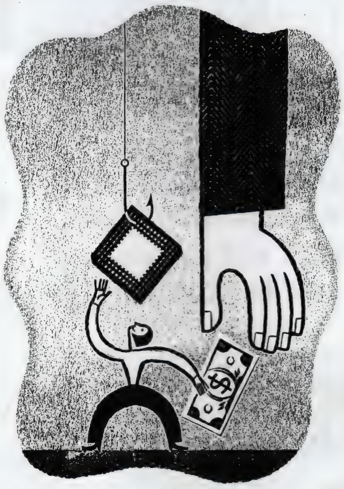

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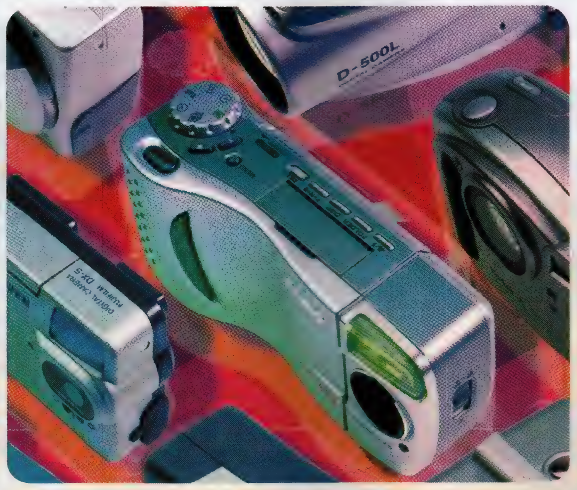

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*Source: NetBuyer Executive Summary Database 1/98

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COMPUTER SHOPPER NetBuyer

this month

From SOHO To Go-Go

It takes a while for an acronym to become familiar enough for *Computer Shopper*'s copy editors to let it into the magazine without a full spelling. We no longer bother, for instance, explaining what RAM and ROM stand for, and we're pretty sure most of you know what a PDA is.

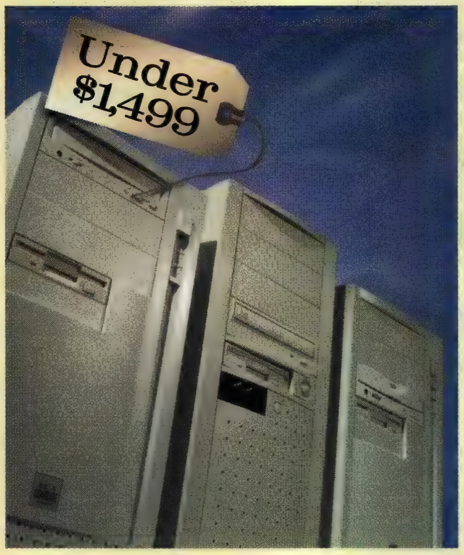
Probably the next acronym destined to pass into common usage is SOHO—industry jargon for the small-office/home-office segment that, as this issue shows, is one of the hottest parts of the PC market.

To survive in the SOHO arena, products must help small companies compete with big ones, literally delivering business-class results at coach prices. Both of this month's feature roundups fulfill that challenge.

The first tests five desktop PCs that pinch pennies but don't skimp on specifications: Each packs 233MHz power (three Pentium IIs, an AMD K6, and a Cyrix 6x86MX), 32MB of RAM, and a 3GB-plus hard drive for less than $1,499. In the second, we check out six affordable color inkjet printers that can handle everything from plain-paper business letters to glossy photographic images.

Speaking of images, digital cameras are increasingly popular home-office accessories, able to capture everything from family snapshots to Web-page illustrations. This issue's Hardware Shopper's Guide gives you all the facts and features to look for when choosing among the latest cameras. It's accompanied by a smaller guide to another family-friendly acronym: DVD, in the form of upgrade kits that can turn a multimedia PC into a first-run home theater.

Of course, *Shopper* follows the newest premium technologies as well as small-office values. If you're a portable power user who's been waiting eagerly for Intel to unplug the Pentium II, you've probably already turned to the Mobile Computing pages to check out the fastest laptops yet—the first four 266MHz Pentium II notebooks to hit the direct channel. And if you chafe at 56Kbps modem downloads, see our Reviews In Brief look at Boca Research's dual-line, 112Kbps DynamicDuo.



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The *Point of Sale Power Station 3000* by Cougar Mountain is a fully integrated point of sale hardware and software solution that combines the powerful POSIFLEX PST-3000 point of sale terminal with the formidable Cougar Mountain Software Point of Sale package. Cougar Mountain Point of Sale gives you complete control over your inventory, cash, and retail sales by including General Ledger, Accounts Receivable, and Inventory at no extra cost. And, all that power is packed into a modern, high performance, network ready machine and is ready to use right out of the box.

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Here are just a few of the benefits you'll experience when you start using the *Point of Sale Power Station 3000*:

- ✓ Increased accuracy – reduce price input errors with built in lookups and multiple pricing levels.
- ✓ Reduced shrinkage – detailed transaction reports, balancing procedures, salesperson reports and inventory reports.
- ✓ Increased Profits – reduce shrinkage, better inventory control, and detailed financial information equals higher profits and reduced overhead.
- ✓ Up-to-the-minute inventory information – Dynamic updating of inventory with every sale ensures that you know exactly what you have on hand.
- ✓ Easily run multiple companies from one machine.
- ✓ Total integration between accounting, sales and inventory – Full integration makes accounting a snap.
- ✓ Faster customer processing – POS is about twice as fast as a cash register.
- ✓ Detailed customer credit information – Credit limits, account balances, payments, discount levels and more.
- ✓ Multi-level security so that private information remains that way – display only the information *you* want employees or customers to see.
- ✓ Dozens of different detailed profit reports so you know how your sales and your business are doing at a glance.
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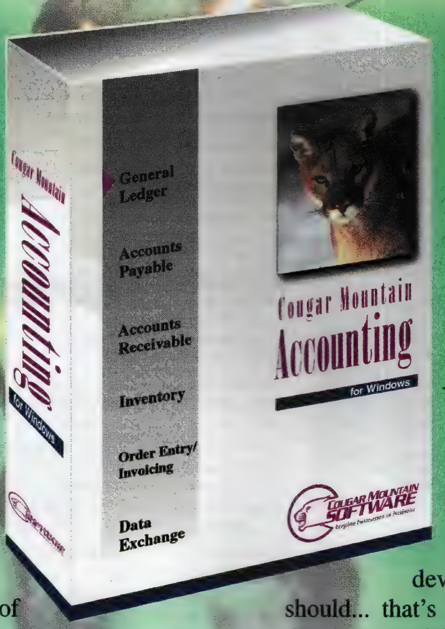
History and opportunity gave Thomas Edison dozens of chances to get the light bulb right. Unfortunately, Uncle Sam isn't so understanding about your books. So, you've got to...

Get It Right The First Time

Use *Accounting for Windows* by Cougar Mountain Software and you'll get it right the first time by rigidly adhering to Generally Accepted Accounting Principles (GAAP), but you don't have to be an Accountant to use it. *Accounting for Windows* does all the work for you. In fact, Cougar Mountain Software is so powerful and complete that it is the long-term choice of more than 25,000 successful businesses nationwide.



Everything you need to know to take control of your company's books is in this box.

Based on 16 years of experience developing accounting software that fits the needs of businesses just like yours, *Accounting for Windows* was developed from your point of view. That means your books work the way your company works, not the way a software company thinks they should. You get the information that you need, that your Accountant needs and that Uncle Sam needs, and it is right the very first time. Unlike other software companies, we run our company with our software *every day*!

If getting it right the first time means having access to vital financial information, detailed sales figures, and up to the minute inventory, backed by a secure audit trail and GAAP conformance, then *Accounting for Windows* is the package for you.

If not... maybe you can get Uncle Sam and the IRS to give you a few more chances to get it right...

COUGAR MOUNTAIN SOFTWARE
keeping businesses in business

Audit-Proof Your Books

One of the greatest fears of every business is being audited. *Accounting for Windows* takes away that fear. A detailed audit trail and rigid adherence to GAAP is your guarantee that your Accountant will be armed to the teeth with information if that day comes. Detailed reports also allow you to catch mistakes and variances easily. Never fear an audit again, rest in the comfort of knowing your accounting software is working as hard as your business. There is another bonus too, you'll save money on your end of year accounting costs since you'll be able to give your CPA all the information they need quickly and completely.

Inventory Control

It's been said that the success or failure of a business can be tracked to the control of inventory. *Accounting for Windows* gives you the power to control your inventory so well that you never have too little or too much. Set your minimum and maximum levels and you'll know when it is time to order, or which products aren't moving so you can add more profitable new products. Detailed security allows you to effectively combat employee theft and collusion, the biggest killer of retail inventory.

Detailed inventory reports give you an up-to-the-minute view of your inventory so you can make crucial management decisions at a moment's notice.

Your Books Will Always Be Secure

Multiple levels of security allow you to finitely control who has access to what functions of your books and at what level. That means you can protect your most sensitive information from prying eyes, while giving yourself, your Accountant or your CFO complete access to detailed data they need to help you make vital business decisions. Even limit what information a salesperson can see on the screen.

Fast, Flexible and Easy

The familiar Windows platform allows you to quickly and intuitively move through the process. The Order Entry screen is fully customizable so you can enter the information you need, the way you want it to be entered, not the way a software developer thinks you should... that's flexibility! Enter your data once and let the software do the rest, it's like having your own software auto-pilot. Make journal entries and customer changes on the fly. You need to work fast and *Accounting for Windows* makes it easy.

Detailed Customer Information

You need to know everything you can about your customers, when they last purchased, how much they purchased, what their credit limit is, and so much more. Detailed customer history is only a mouse click away. Quickly determine who your most valuable customers are and send them a special offer or determine who hasn't purchased from you in a while so you can bring them back in the fold. Database marketing is a snap with *Accounting for Windows*!

A few more of the many benefits:

- Enter your data once and let the software do the rest, it's like having a built in software auto-pilot.
- Fully Year 2000 compliant.
- Easy to network – supports multiple users in the same module at the same time.
- Fully customizable order entry screen allows you to enter data your way.
- Quickly make or change entries on-the-fly.
- Your customer database contains so much information, you can do desktop marketing right from the information in your accounting software!
- Get the financial reports you need, when you need them so you can manage your business at maximum effectiveness.
- Contains 6 robust modules including General Ledger, Accounts Receivable, Accounts Payable, Inventory, Order Entry, and Data Exchange. All the power you need at one low price!
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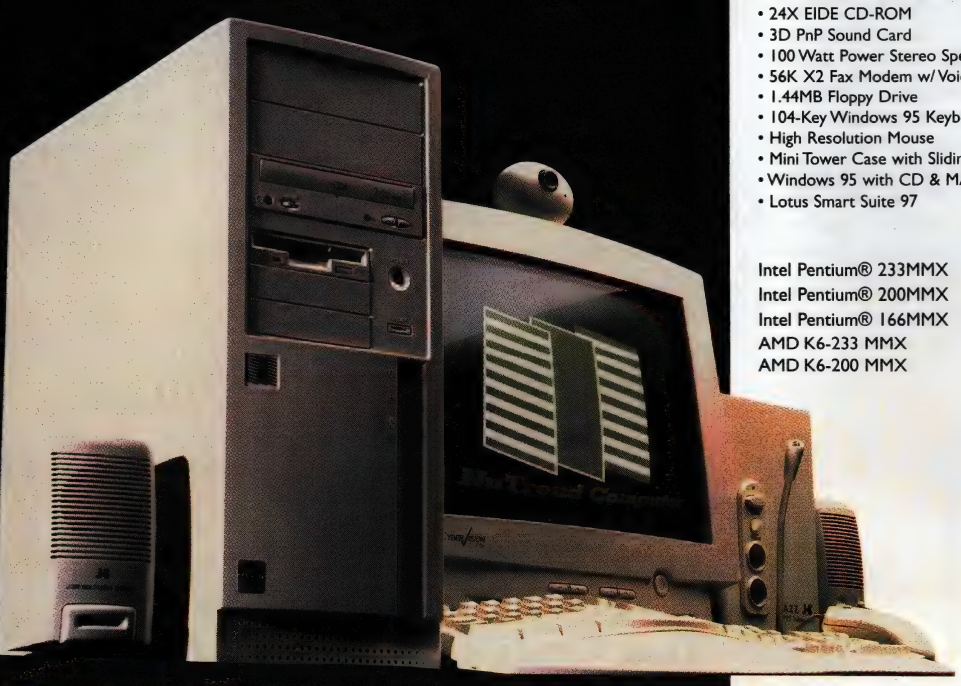

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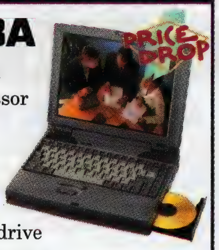

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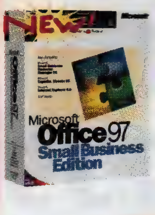

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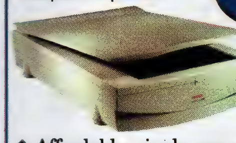

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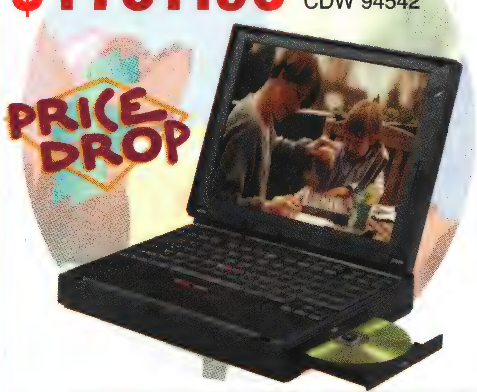

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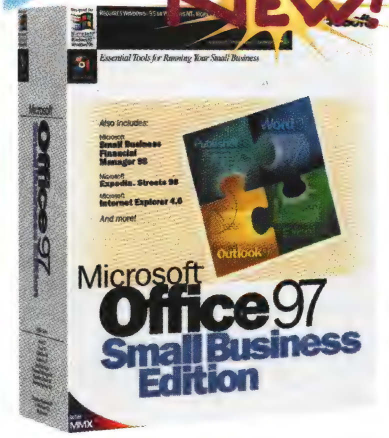
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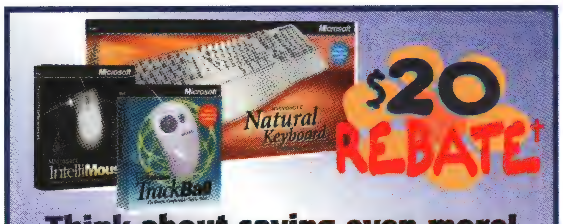

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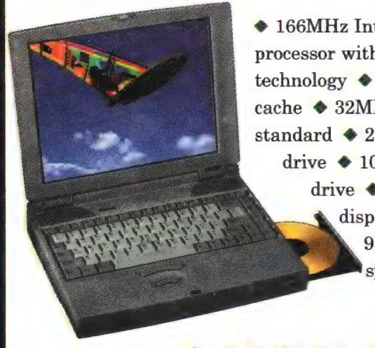

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32MB	$125.59	94823	64MB	$269.45	94825

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Pavilion 7270, 7275Z, 7280P, 7285, 7295V, 7320, 7330Z, 7350P, 7360, 7370V, 8140, 8160 (EDO Memory)

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Pavilion 3100 w/MMX, 8190, 8280, 8240, 8275, 8276, 8260, 3260

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LaserJet 4000, T, N, TN

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16MB	$83.03	100397	32MB	$148.99	100398

SDRAM

16MB	$54.07	100401	32MB	$109.53	100402

LaserJet 6P, 6PSE, 6MP, 6PXI

4MB	$16.85	43306	8MB	$28.08	42443
16MB	$49.55	45396			

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ThinkPad 770

EDO

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SDRAM

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64MB	$254.38	97306			

ThinkPad 310ED, 365 X Series, 365X, 365XD, 380, 380D, 385D, 560, 560E, 560X, 760, E, ED, EL, ELD, XD, XL, 765D, L, LD (EDO memory)

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Aptiva C23, C33, C55, C65, C66, C67, C6Y, C73, C77 (EDO memory)

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Aptiva E14, E16, E24, E26, E34, E46 (EDO memory)

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Aptiva S35, S3C, S8C, S9C, S9H, S64, S66, S74, S78, S7H, S80, S90, C3D, C3E, C8E, C8F, C8H, C9E, C9F, C9S, C85 (SDRAM)

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Aptiva S64, S66, S74, S78, S7H, S80, S90 (EDO memory)

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OKIDATA

Page 16N

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Libretto 50CT, 70CT

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64MB	$239.61	110309			

Tecra 220CDS, 460CDT, 480, 500, 510, 520CDT, 530CDT, 650, Satellite Pro 440CDT, CDX, 460CDT, (EDO memory)

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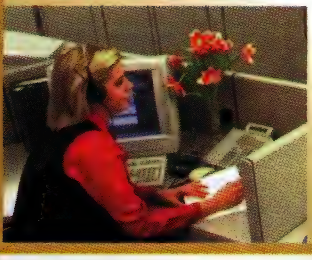

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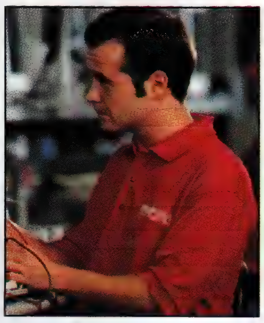

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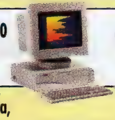

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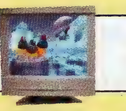

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Compaq Proliant 800 Server, Pentium Pro 200, 4.3GB HD	273720-003	2899.95
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Kodak DC 200 Digital Camera	8381896	599.95

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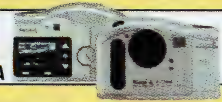

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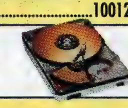

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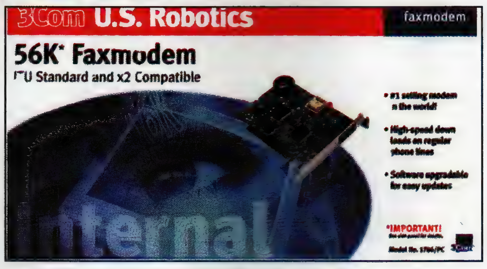

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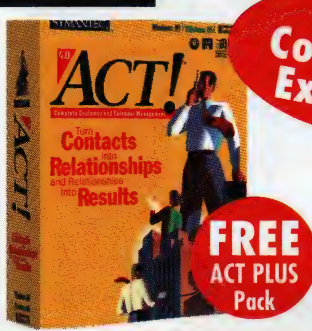
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Compaq	V75	17" High Contrast	16"	0.26	1280 x 1024	@ 60Hz	Yes	3-3-3, 48 Hr. Swap
Princeton	EO90	19" High Contrast	18"	0.26	1600 x 1200	@ 75Hz	Yes	3-3-3, 48 Hr. Swap**
Compaq	V90	19" High Contrast	18"	0.26	1600 x 1200	@ 75Hz	Yes	3-3-3, 48 Hr. Swap
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- **64MB RAM, 512 KB Cache**
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- **32X Speed EIDE CD-ROM Drive**
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- ***SuperWoofer*** & Full Range ***Speakers***
- ***56Kbps Flex2*** Fax / Modem (Internet Ready)
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# *SYS057PII23*	**P-II 233**	**$ 1358**
# *SYS057PII26*	**P-II 266**	**$ 1478**
# *SYS057PII30*	**P-II 300**	**$ 1618**
# *SYS057PII33*	**P-II 333**	**$ 1798**

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- **64MB RAM, 512 KB Cache**
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- **6.0 Gigabyte** IDE Hard Drive
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- **17"** FST SVGA NI ***Digital*** Color Monitor
- **32X Speed** EIDE **CD-ROM Drive**
- **PCI *Wave-64 & 3D Surround*** Sound Card
- ***56Kbps Flex2*** Fax / Modem (Internet Ready)
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- **High Speed** 2 Serial, Parallel & ***USB*** ports
- Microsoft Windows '95& Hi Res. Serial Mouse
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- **Windows '95 certified** 104-keys Keyboard

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- **32X Speed** EIDE **CD-ROM Drive**
- **PCI *Wave-64 & 3D Surround*** Sound Card
- ***SuperWoofer*** & Full Range ***Speakers***
- ***56Kbps Flex2*** Fax / Modem (Internet Ready)
- **Tower Case**
- **High Speed** 2 Serial, Parallel & ***USB*** ports
- Microsoft Windows '95& Hi Res. Serial Mouse
- **Corel WordPerfect Suite** (WordPerfect, QuatroPro, Corel Presentation, Navigator, Sidekick, 10000 Cliparts, 150 types of fonts
- **Windows '95 certified** 104-keys Keyboard

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- **High Speed** 2 Serial, 1 Parallel & ***USB*** ports
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- ***Interactive Encyclopedia*** (Vast reference)
- Microsoft Windows '95 & Hi-Res. Mouse
- **Windows '95 certified** 104-keys Keyboard

# *SYS055M16*	**MMX 166**	**$ 858**
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# *SYS055PII23*	**P-II 233**	**$ 1088**
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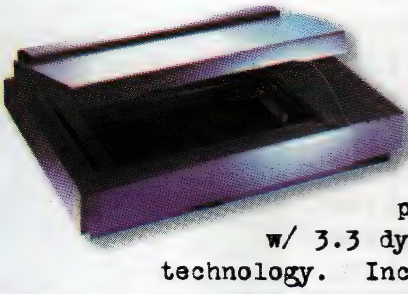

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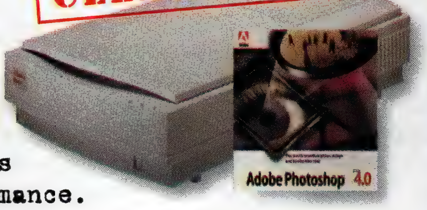

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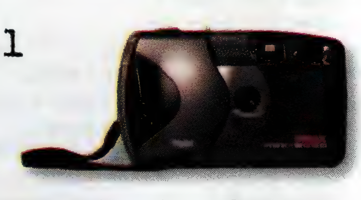

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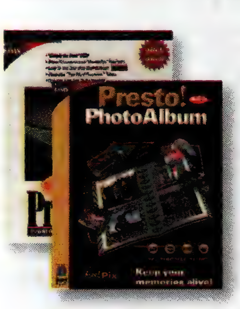

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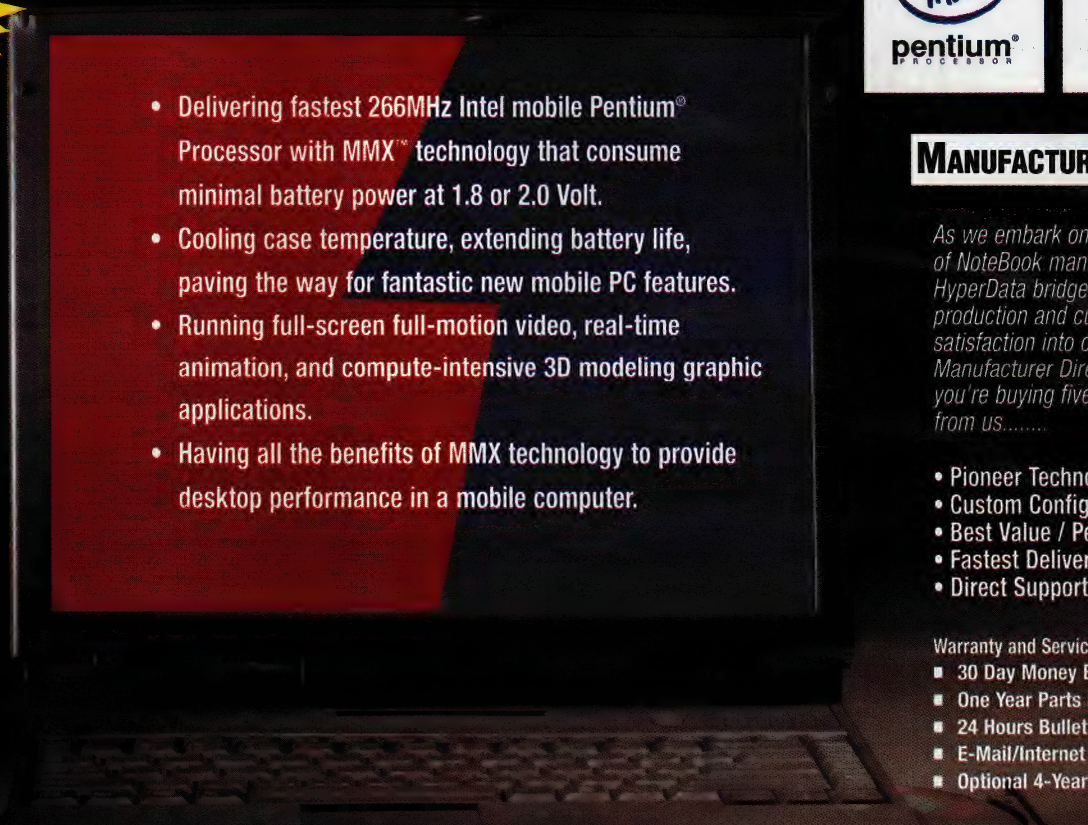

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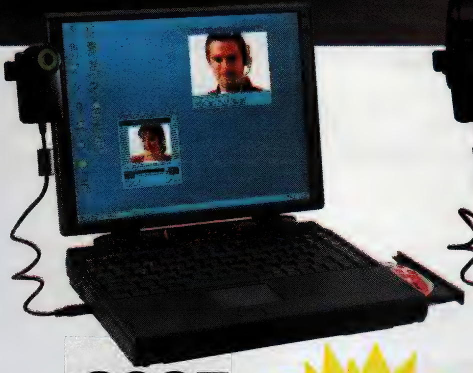

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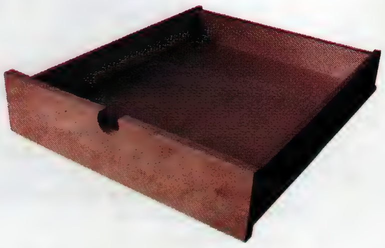

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TC COMPUTERS

DELL DIMENSION® DESKTOPS FOR BUSINESS

Common features: ◆ Mini-Tower Model ◆ 512KB Integrated L2 Cache ◆ 3.5" Floppy Disk Drive ◆ Two USB Ports ◆ MS® Office 97 Small Business Edition plus Bookshelf 98 ◆ McAfee VirusScan ◆ MS Windows® 95 ◆ ***FREE* MS Windows 98 Upgrade Packet**√ ◆ MS Internet Explorer ◆ Dell® QuietKey® Keyboard ◆ MS IntelliMouse® ◆ 3-Year Limited Warranty† ◆ 1-Year On-site^Δ Service **Upgrades:** ◆ HP® DeskJet® 722C, add $299 ◆ HP LaserJet® 6Lse, add $429 ◆ APC Back-UPS Pro 650 PnP, add $289

DELL DIMENSION XPS D333
333MHz PENTIUM® II PROCESSOR
FEATURING MMX™ TECHNOLOGY

Common features listed above plus:
- 128MB SDRAM Memory
- *NEW* 16.8GB Ultra ATA Hard Drive (9.5ms)
- 1200HS 19" (17.9" v.i.s., .26dp) Monitor
- *NEW* Diamond Permedia 2 8MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-295 Speakers with Subwoofer
- Iomega Zip 100MB Internal Drive

$3149

Business Lease°: $116/Mo., 36 Mos.
Order Code #590401

DELL DIMENSION XPS D300
300MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 128MB SDRAM Memory
- 8.4GB Ultra ATA Hard Drive (9.5ms)
- 1200HS 19" (17.9" v.i.s., .26dp) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 2X DVD-ROM Drive and Decoder Card
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-90 Speakers

★ *Upgrade to a 1600HS 21" (19.8" v.i.s., .26dp) Trinitron® Monitor, add $539.*

★ *Iomega 100MB Internal Drive, add $99.*

$2799

Business Lease°: $106/Mo., 36 Mos.
Order Code #590402

DELL DIMENSION XPS D266
266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 64MB SDRAM Memory
- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000TX 17" (15.9" v.i.s., .26dp) Trinitron Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- Iomega Zip 100MB Internal Drive
- 3Com® 3C905 Fast EtherLink™ XL 10/100 PCI Card

★ *Upgrade to 128MB SDRAM, add $199.*

$2199

Business Lease°: $83/Mo., 36 Mos.
Order Code #590403

DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000LS 17" (15.9" v.i.s.) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive

★ *Upgrade to 64MB SDRAM, add $99.*

★ *Upgrade to an 8.4GB Ultra ATA Hard Drive, add $49.*

★ *3Com 3C905 Fast EtherLink XL 10/100 PCI Card, add $79.*

★ *Integrated Yamaha Wavetable Sound and Altec Lansing ACS-90 Speakers, add $75.*

$1699

Business Lease°: $64/Mo., 36 Mos.
Order Code #590404

MEGAHERTZ AND MEGABYTES

DELL DIMENSION DESKTOPS FOR HOME

Common features: ◆ Mini-Tower Model ◆ 512KB Integrated L2 Cache ◆ 56K Capable** U.S.R. x2 WinModem ◆ 3.5" Floppy Disk Drive ◆ Two USB Ports ◆ MS Home Essentials 98 with Money 98 ◆ McAfee VirusScan ◆ MS Windows 95 ◆ ***FREE* MS Windows 98 Upgrade Packet**√ ◆ MS Internet Explorer ◆ MS IntelliMouse ◆ 3-Year Ltd. Warranty† ◆ 1-Year On-site^Δ Service **Upgrades:** ◆ 3-Year On-site^Δ Service, add $99 ◆ HP ScanJet 5100Cse Scanner, add $299 ◆ MS Sidewinder Precision Pro, add $69 ◆ Riven (the sequel to Myst), add $59

DELL DIMENSION XPS D333
333MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 128MB SDRAM Memory
- *NEW* 16.8GB Ultra ATA Hard Drive (9.5ms)
- 1200HS 19" (17.9" v.i.s., .26dp) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 2X DVD-ROM Drive and Decoder Card
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-495 Full Dolby Surround Sound Speakers with Subwoofer
- Iomega Zip 100MB Internal Drive
- Dell Comfort Key Keyboard

★ *Upgrade to a 1600HS 21" (19.8" v.i.s., .26dp) Monitor, add $539.*

$3479

Personal Lease°: $168/Mo., 24 Mos.ø
Order Code #500404

DELL DIMENSION XPS D333
333MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 128MB SDRAM Memory
- 8.4GB Ultra ATA Hard Drive (9.5ms)
- 1200HS 19" (17.9" v.i.s., .26dp) Monitor
- *NEW* Diamond Permedia 2 8MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-495 Full Dolby Surround Sound Speakers with Subwoofer
- Dell QuietKey Keyboard

★ *Upgrade to a 16.8GB Ultra ATA Hard Drive, add $299.*

$2899

Personal Lease°: $140/Mo., 24 Mos.
Order Code #500403

DELL DIMENSION XPS D300
300MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 64MB SDRAM Memory
- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000TX 17" (15.9" v.i.s., .26dp) Trinitron Monitor
- *NEW* Diamond Permedia 2 8MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-295 Speakers with Subwoofer
- Iomega Zip 100MB Internal Drive with Two Cartridges
- Dell QuietKey Keyboard

$2399

Personal Lease°: $117/Mo., 24 Mos.
Order Code #500402

DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000LS 17" (15.9" v.i.s.) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- Dell Comfort Key Keyboard

★ *Upgrade to 64MB SDRAM, add $99.*

★ *Upgrade to Altec Lansing ACS-295 Speakers with Subwoofer, add $59.*

$1799

Personal Lease°: $88/Mo., 24 Mos.
Order Code #500401

Reference the appropriate order code to receive featured configuration and pricing.

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Microsoft® Office 97 Small Business Edition includes:
- Word 97
- Excel 97
- Publisher 97
- Outlook
- Small Business Financial Mgr. 97
- Automap Streets Plus

Microsoft Home Essentials 98 includes:
- Word 97
- Encarta 98 Encyclopedia
- Money 98
- Works 4.5
- Greetings Workshop 2.0
- Puzzle Collection

Software Upgrades:
- Quicken Deluxe 98, add $62.
- Game Pack I (Command & Conquer: GOLD, Myst and WarCraft II), add $59.

DELL WORKSTATION

DELL WORKSTATION 400
***NEW* 333MHz PENTIUM II PROCESSOR**
FEATURING MMX TECHNOLOGY
(DUAL PROCESSOR CAPABLE)

- 128MB ECC EDO Memory (512MB Max)
- 9.1GB Ultra-Wide SCSI-3 Hard Drive
- 1600HS 21" (19.8" v.i.s.) Trinitron Monitor
- Matrox 8MB WRAM PCI Video Card
- 24X Max[§] Variable SCSI CD-ROM
- Integrated Sound Blaster Pro Compatible Sound
- Integrated 3Com EtherLink® XL 10/100
- Remote Manageability via DMI 2.0
- MS Windows NT® Workstation 4.0
- Microsoft Mouse
- 3-Year Limited Warranty[†]
- 1-Year On-site[Δ] Service

$4999

Business Lease[◊]: $184/Mo., 36 Mos.
Order Code #990401

DELL POWEREDGE® SERVERS

Common features: ◆ 512KB Integrated L2 ECC Cache ◆ Integrated PCI Ultra-Wide SCSI-3 Controller ◆ Intel Pro/100B PCI Ethernet Adapter ◆ HP OpenView™ NNM Special Edition ◆ 24X Max[§] Variable SCSI CD-ROM Drive

DELL POWEREDGE 2200 SERVER
***NEW* 333MHz PENTIUM II PROCESSOR**
DUAL PROCESSOR/RAID CAPABLE WORKGROUP SERVER

Common features listed above plus:
- 128MB ECC EDO Memory
- 9GB Ultra-Wide SCSI-3 Hard Drive (7200 rpm)
- 12/24GB Variable SCSI DAT Tape Backup Unit
- 6 Expansion Slots: 3 PCI/3 EISA
- 6 Drive Bays: 3 External 5.25"/ 3 Internal 3.5"
- 3-Year Next-Business-Day On-site[Δ] Service
- 7x24 Dedicated Server Hardware Technical Telephone Support

$4499

Business Lease[◊]: $165/Mo., 36 Mos.
Order Code #250119

DELL POWEREDGE 2200 SERVER
266MHz PENTIUM II PROCESSOR
DUAL PROCESSOR/RAID CAPABLE WORKGROUP SERVER

Common features listed above plus:
- 64MB ECC EDO Memory
- 4GB Ultra-Wide SCSI-3 Hard Drive (7200 rpm)
- APC Smart-UPS 700 Power Supply
- 6 Expansion Slots: 3 PCI/3 EISA
- 6 Drive Bays: 3 External 5.25"/ 3 Internal 3.5"
- 3-Year Next-Business-Day On-site[Δ] Service
- 7x24 Dedicated Server Hardware Technical Telephone Support

★ *Upgrade to 128MB Memory, add $310.*

$2999

Business Lease[◊]: $114/Mo., 36 Mos.
Order Code #250123

WITHOUT MEGABUCKS.

DELL INSPIRON™ NOTEBOOKS

Common features: ◆ Modular Options Bay accepts 24X Max[ΔΔ] Variable CD-ROM, 3.5" Floppy Drive (both included) or Optional 2nd Smart Lithium-Ion Battery ◆ 512KB L2 Pipeline Burst Cache ◆ Stereo Speakers with 3D Surround Sound and Yamaha Software Wavetable ◆ Zoom Video and USB Ports ◆ Smart Li-Ion Battery ◆ Cardbus Ready/Fast IR1.1 ◆ MS Windows 95 ◆ ***FREE* MS Windows 98 Upgrade Packet**[√] ◆ MS Internet Explorer ◆ Touchpad ◆ Extendable 1-Year Limited Warranty[†] ◆ Upgrade to 3-Year Parts and Labor Service, add $149

NEW DELL INSPIRON 3200 D266XT
266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 13.3" XGA Active Matrix TFT Display
- 144MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capable[π] K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
- 6.9 Pounds*

★ *Inspiron Port Replicator, add $159.*
★ *3Com 10/100 Fast Ethernet Adapter, add $169.*

$3999

Business Lease[◊]: $147/Mo., 36Mos.
Order Code #890401

NEW DELL INSPIRON 3200 D266XT
266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 13.3" XGA Active Matrix TFT Display
- 64MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capable[π] K-Flex Modem
- MS Office 97 Small Business Edition
- 6.9 Pounds*

★ *Upgrade to 96MB SDRAM, add $199.*
★ *2nd Smart Lithium Ion Battery, add $169.*
★ *Leather Carrying Case, add $99.*
★ *Upgrade to MS Office 97 Professional, $199.*

$3399

Business Lease[◊]: $125/Mo., 36Mos.
Order Code #890413

DELL INSPIRON 3000 M233XT
233MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

Common features listed above plus:
- 13.3" XGA Active Matrix TFT Display
- 32MB SDRAM Memory
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capable[π] K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
- 6.9 Pounds*

★ *Upgrade to 64MB SDRAM, add $199.*
★ *Upgrade to a 4GB Ultra ATA Hard Drive, add $99.*

$2899

Business Lease[◊]: $110/Mo., 36 Mos.
Order Code #890415

DELL INSPIRON 3000 M200ST
200MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

Common features listed above plus:
- 12.1" SVGA Active Matrix TFT Display
- 32MB SDRAM Memory
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 16 Million Colors at 800x600
- MS Office 97 Small Business Edition
- 6.4 Pounds*

★ *Upgrade to a 233MHz Pentium Processor, add $200.*
★ *Upgrade to 64MB SDRAM, add $199.*
★ *Upgrade to a 4GB Ultra ATA Hard Drive, add $99.*

$2199

Business Lease[◊]: $83/Mo., 36 Mos.
Order Code #890411

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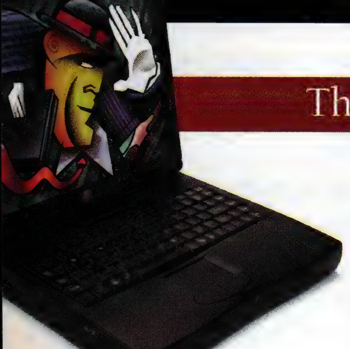

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- 2MB EDO PCI Graphics
- 1.4GB Hard Drive / 3.5" Floppy
- 20X CD-ROM Drive
- Zoomed Video Port, Video In Jack
- Infrared Interface Support
- 16-Bit Built-in Sound with Speakers
- Integrated Personal Touchpad
- Two Type II / One Type III PCMCIA Slot
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- Microsoft Windows95
- **Two-Year Limited Warranty**
- Carrying Case

$1495
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Apex™ XC-200

- **12.1" SVGA Active Matrix Color Display**
- **200MHz Pentium Processor *with MMX Technology***
- **32MB EDO RAM, 256K L2 Cache**
- 2MB EDO PCI Graphics
- **2.1GB Hard Drive / 3.5" Floppy**
- 20X CD-ROM Drive
- Zoomed Video Port, Video In Jack
- Infrared Interface Support
- 16-Bit Built-in Sound with Speakers
- Integrated Personal Touchpad
- Two Type II / One Type III PCMCIA Slot
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- Microsoft Windows95
- **Two-Year Limited Warranty**
- Carrying Case

2.8 Volt	1.8 Volt
$1795	**$1995**

BUSINESS LEASE $58/mo.

Apex™ IL-200

- **13.3" XGA Active Matrix Color Display**
- **200MHz Pentium Processor *with MMX Technology***
- **32MB EDO RAM, 256K L2 Cache**
- 2MB EDO PCI Graphics
- **2.1GB Hard Drive / 3.5" Floppy**
- 20X CD-ROM Drive
- Zoomed Video Port, Video In Jack
- Infrared Interface Support
- 16-Bit Built-in Sound with Speakers
- Integrated Personal Touchpad
- Two Type II / One Type III PCMCIA Slot
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- **Mobile Car Adapter**
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- **Two-Year Limited Warranty**
- Carrying Case

2.8 Volt	1.8 Volt
$2095	**$2295**

BUSINESS LEASE $68/mo.

Apex™ MI-200

- **13.3" XGA Active Matrix Color Display**
- **200MHz Pentium Processor *with MMX Technology***
- **64MB SDRAM, 256K L2 Cache**
- 2MB EDO PCI Graphics
- **3.0GB Hard Drive / 3.5" Floppy**
- 20X CD-ROM Drive
- Zoomed Video Port, Video In Jack
- Infrared Interface Support
- 16-Bit Built-in Sound with Speakers
- Integrated Personal Touchpad
- Two Type II / One Type III PCMCIA Slot
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- **Mobile Car Adapter**
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- **Two-Year Limited Warranty**
- Carrying Case

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Apex*Premier*™ **X-233**

- **13.3" XGA Active Matrix Color Display**
- Intel 430TX Mobile Chipset
- **233MHz Pentium Tillamook 1.8 volt Processor *with MMX Technology***
- **32MB SDRAM, 512K L2 Cache**
- **2.1GB Hard Drive / 3.5" Floppy Drive**
- **4MB EDO PCI Graphics**
- 24X Variable CD-ROM
- Zoomed Video Port, Video in Jack
- Fast Infrared Interface Support
- Universal Serial Bus Port
- NTSC Video Input / Output, Game Port
- Yamaha 3D Wavetable Sound
- Touchpad Pointing Device
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- **Mobile Car Adapter**
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- **Two-Year Limited Warranty**
- **Targus Carrying Case**

$2545

BUSINESS LEASE $82/mo.

Apex*Premier*™ **P-233**

- **14.1" XGA Active Matrix Color Display**
- Intel 430TX Mobile Chipset
- **233MHz Pentium Tillamook 1.8 volt Processor *with MMX Technology***
- **32MB SDRAM, 512K L2 Cache**
- **3.0GB Hard Drive / 3.5" Floppy Drive**
- **4MB EDO PCI Graphics**
- 24X Variable CD-ROM
- Zoomed Video Port, Video in Jack
- Fast Infrared Interface Support
- Universal Serial Bus Port
- NTSC Video Input / Output, Game Port
- Yamaha 3D Wavetable Sound
- Touchpad Pointing Device
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- **Mobile Car Adapter**
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- **Two-Year Limited Warranty**
- **Targus Carrying Case**

$2795

BUSINESS LEASE $91/mo.

Apex*Premier*™ **PX-266**

- **14.1" XGA Active Matrix Color Display**
- Intel 430TX Mobile Chipset
- **266MHz Pentium Tillamook 2.0 volt Processor *with MMX Technology***
- **64MB SDRAM, 512K L2 Cache**
- **4.0GB Hard Drive / 3.5" Floppy Drive**
- **4MB EDO PCI Graphics**
- 24X Variable CD-ROM
- Zoomed Video Port, Video in Jack
- Fast Infrared Interface Support
- Universal Serial Bus Port
- NTSC Video Input / Output, Game Port
- Yamaha 3D Wavetable Sound
- Touchpad Pointing Device
- Lithium Ion Battery / AC Adapter
- **K56Flex PCMCIA Fax Modem**
- **Mobile Car Adapter**
- Microsoft Windows95
- **Microsoft Office 97 Small Business Edition**
- Microsoft Money
- **Two-Year Limited Warranty**
- **Targus Carrying Case**

$3345

BUSINESS LEASE $109/mo.

Apex*Premier*™ **PXI-266**

- **14.1" XGA Active Matrix Color Display**
- Intel 430TX Mobile Chipset
- **266MHz Pentium Tillamook 2.0 volt Processor *with MMX Technology***
- **128MB SDRAM, 512K L2 Cache**
- **5.0GB Hard Drive / 3.5" Floppy Drive**
- **4MB EDO PCI Graphics**
- **Iomega Zip Drive 100MB (internal)**
- 24X Variable CD-ROM
- Zoomed Video Port, Video in Jack
- Fast Infrared Interface Support
- Universal Serial Bus Port
- NTSC Video Input / Output, Game Port
- Yamaha 3D Wavetable Sound
- Touchpad Pointing Device
- **(2) Lithium Ion Batteries / AC Adapter**
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Evolution™ I-200

- **200MHz Pentium Processor *with MMX Technology***
- **32MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **2.1GB Hard-Drive**
- 2MB PCI Graphics Card
- 15″ Non-Interlaced (.28 Dot Pitch)
- **Yamaha 3D Wavetable Sound with Labtec Speakers**
- 24X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- Three Year Limited Warranty

$1095
BUSINESS LEASE $35/mo.

Evolution™ I-233

- **233MHz Pentium II Processor**
- **32MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **4.0GB Ultra ATA Hard-Drive**
- 4MB AGP 3D Graphics
- **17″ Non-Interlaced (.28 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Labtec Speakers**
- 32X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- Three Year Limited Warranty

$1545
BUSINESS LEASE $50/mo.

Evolution™ AM-233

- **233MHz AMDK6 Processor *with MMX Technology***
- **64MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **6.0GB Ultra ATA Hard Drive**
- 4MB PCI 3D Graphics
- **17" Non-Interlaced (.28 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Labtec Speakers**
- 32X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- Three-Year Limited Warranty

$1445
BUSINESS LEASE $47/mo.

Evolution™ IN-266

- **266MHz Pentium II Processor**
- **64MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **6.0GB Ultra ATA Hard Drive**
- 4MB AGP 3D Graphics
- **17" Non-Interlaced (.28 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Labtec Speakers**
- 32X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- Three-Year Limited Warranty

$1745
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Evolution™ LP-300

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- 2-Universal Serial Bus Ports
- **6.0GB Ultra ATA Hard Drive**
- 4MB AGP 3D Graphics
- **17" Non-Interlaced (.28 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Altec Lansing ACS-45 Speakers with Subwoofer**
- **DVD ROM with Decoder**
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Home Essentials Package**
- Three-Year Limited Warranty

$1895

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Evolution™ LPII-300

- **300MHz Pentium II Processor**
- **64MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **6.0GB Ultra ATA Hard Drive**
- 4MB AGP 3D Graphics
- **17" Non-Interlaced (.25 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Altec Lansing ACS-45 Speakers with Subwoofer**
- 32X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Office 97 Small Business Edition**
- Three-Year Limited Warranty

$2095

BUSINESS LEASE $68/mo.

Evolution™ XP-333

- **333MHz Pentium II Processor**
- **64MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **8.0GB Ultra ATA Hard Drive**
- 4MB AGP 3D Graphics
- **17" Non-Interlaced (.28 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Altec Lansing ACS-45 Speakers with Subwoofer**
- 32X Variable EIDE CD-ROM
- **K56Flex Fax Modem**
- **Iomega Zip Drive 100MB (internal)**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Office 97 Small Business Edition**
- Three-Year Limited Warranty

$2245

BUSINESS LEASE $73/mo.

Evolution™ XPII-333

- **333MHz Pentium II Processor**
- **64MB SDRAM, 512K L2 Cache**
- 2-Universal Serial Bus Ports
- **12.0GB Ultra ATA Hard Drive**
- **#9 Revolution 128 Bit 8MB AGP**
- **19" Non-Interlaced (.26 Dot Pitch)**
- **Yamaha 3D Wavetable Sound with Altec Lansing ACS-45 Speakers with Subwoofer**
- **DVD ROM with Decoder**
- **K56Flex Fax Modem**
- 104 Enhanced Keyboard
- Microsoft Intellimouse with Pad
- Microsoft Windows95
- **Microsoft Office 97 Small Business Edition**
- Three-Year Limited Warranty

$2795

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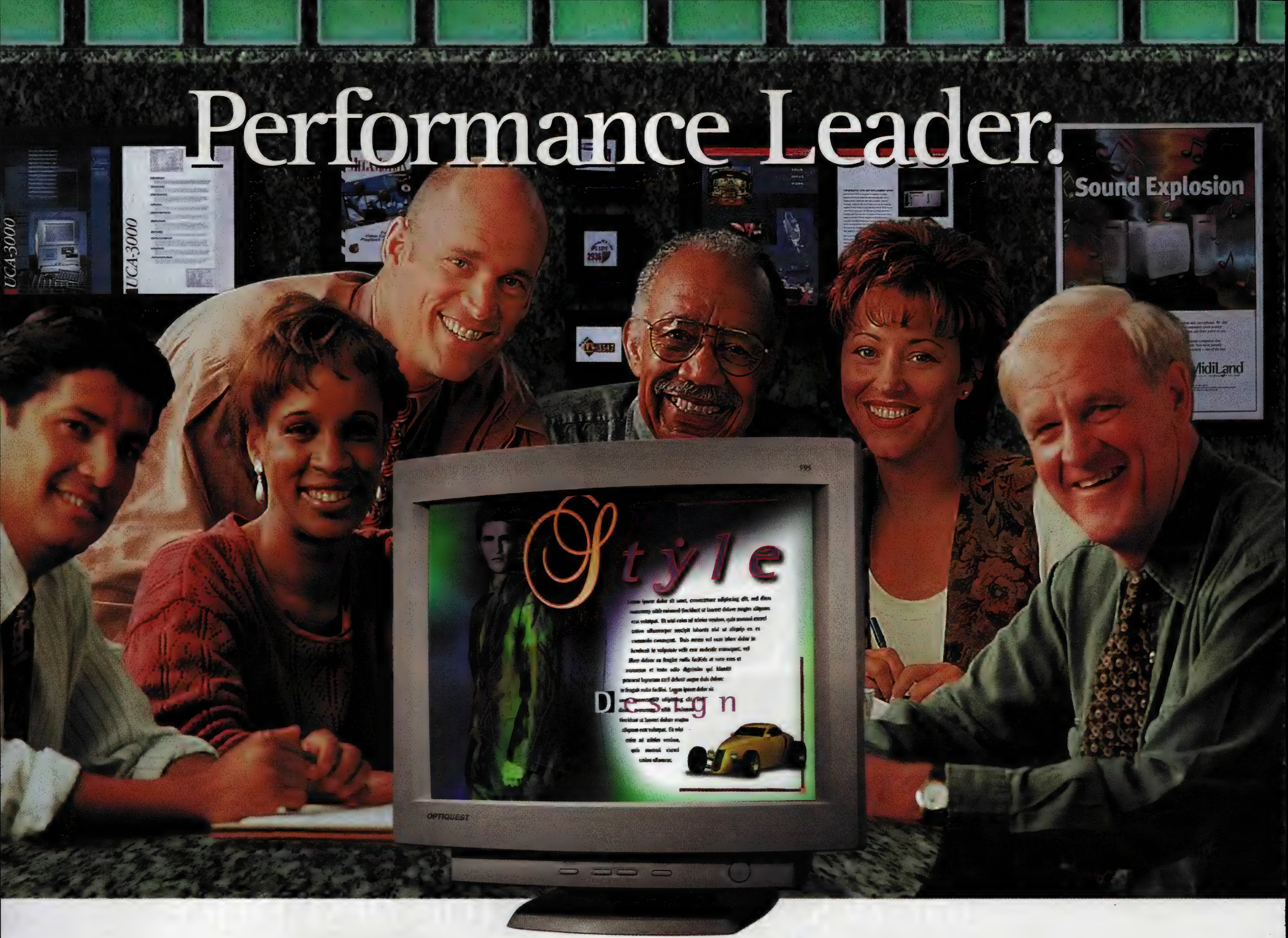

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If you're looking for high performance monitors, without the high price tag, be sure to ask for the Optiquest V Series. Whether you work in a large corporate environment, a small business or out of your home, these monitors deliver the sharp images, brilliant colors and advanced screen technology you need. Plus they're ideal for graphic design, creating a web page, desktop publishing and general office use. Choose from six models, ranging from 15" to 21" (various viewables), including our extraordinary 19" (18.0" viewable) Optiquest V95 monitor with its large screen and small footprint.

OPTIQUEST MONITORS

	V115T	V115	V95	V775	V773	V655
Size/Viewable	21"/19.7"	21"/20.0"	19"/18.0"	17"/16.0"	17"/16.0"	15"/13.8"
Dot Pitch	0.28mm*	0.26mm	0.26mm	0.26mm	0.26mm	0.28mm
Max. Resolution	1,600 x 1,280	1,600 x 1,280	1,600 x 1,280	1,600 x 1,280	1,280 x 1,024	1,280 x 1,024
Optimum Res.	1,280 x 1,024 @89Hz	1,280 x 1,024 @88Hz	1,280 x 1,024 @88Hz	1,280 x 1,024 @79Hz	1,024 x 768 @87Hz	1,024 x 768 @87Hz

* Aperture grille pitch

Optiquest V775 *October 1997*	Optiquest V773 *July 1997*	Optiquest V95 *December 1997*	Optiquest 17" Line *December 1997*	Optiquest V775 *January 1998*	Optiquest V775 *October 1996*

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As the price leader, the Optiquest V Series monitors include fine dot and aperture pitches, high resolution and refresh rates, in addition to easy-to-use on-screen controls, anti-glare/anti-static screens and Plug & Play+. We also offer the full line of Optiquest Q Series monitors, many of which have won awards for offering an excellent product at an affordable price.

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Take it from the Experts

"The Best Overall Value..."

"The Best overall value in this roundup, ABS Computer Technologies' $999 Multimedia System 2 offers a 3.1GB hard drive, 4MB of display memory, a pair of useful software titles, field leading performance, and lifetime labor coverage in addition to its three-year parts warranty..... The system easily outpaced others in this feature on Business Winstone 98, scoring 15.1. ABS'....fieldleading scores on the WinBench 98 graphics tests....One of the only ...tool-free cases...,the midsize tower chassis of the ABS makes plenty of room for expansion, with three open accessible 5.25-inch drive bays and two open internal 3.5 inch bays. A fan in the front of the case augments the power-supply fan.... The ABS Multimedia System 2 rates as an excellent choice.....sizable performance advantage over most of its competitors...."

COMPUTER SHOPPER **Featured System Feb 1998 :** ~Source Page: 166-182 By Patrick Norton.

ZDNet ***Jesse Berst, Editorial Director***
ZDNet AnchorDesk

" I'm here to tell you why this is a terrific time to spring for one of the new $800 PCS-and to show you where to go to find the best bargains. But are these machines underpowered? No way. Today's $800 machines typically feature 200 MHZ processors................., 32MB of ram, a 3GB hard disk and a 56K modem.........
Computer Shopper's current favorite is not from Compaq or H-P, but from ABS Copmuter Technologies."
January 26, 1998

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PC MAGAZINE ***Reviewed as Hot Products by Michael J. Miller, Editor-in-Chief PC Magazine.***

"ABS PC is the best perfromer for the price. Based on the Cyrix 6x86 MX PR 200 CPU, the system comes with 32MB RAM-giving it better performance than most......... Other Advantages include 3.1GB hard disk, a respectable software bundle and lifetime coverage for labor costs. " January 26, 1998

...Great PC for Bargain Hunters...
For full story, browse @
http://www.zdnet.com/anchordesk/story/story-1695.html

ABS LX Supreme 3D 1

128MB/12.0GB/32X/17"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port) All BX Models come w/ BX Chipset
- 128MB SDRAM, 384MB Max PnP Bios
- 12.0GB Ultra IDE Hard Drive
- 32X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **ATI AGP Xpert @ Work 8MB Video Card 3D Rage Pro Chipset "DVD Ready" MPEG**
  High Res 1600x1200 @ 75Hz, 16.7 Million Color, Flicker Free up to 200Hz
- 17" .28DP Color SVGA Monitor, Flat Screen, MPR II
- Creative Labs SoundBlaster AWE 64 Sound Card
- Subwoofer Sound System w/Microphone
  1 Subwoofer, Satellite Speakers (2 Woofers & 2 Tweeters)
  Total RMS Output 25 Watts, 4 Ohms
  "Ideal for Super Bass/High Fidelity"
- 56K X2 Technology Modem
  Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel, 1 Game Port, 2 USB Ports
- Genius PS/2 Net Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed (CD, manual and Disk)
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite '97
- Add an Iomega 100MB Zip Drive @ $89

★ **Intel Pentium® II 512 K Processor**

400 MHZ/#BX5010 $ 2499
350 MHZ/#BX5011 $ 2279
All BX Models come w/ Intel BX Chipset Mother Board

333 MHZ/#5012 $ 2099
300 MHZ/#5013 $ 1939

266 MHZ/#5014 $ 1849
233 MHZ/#5015 $ 1759

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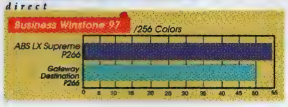


COMPUTER SHOPPER AWARD WINNING SYSTEM ABS Multimedia System 2

64MB/6.4GB/32X/15"/56Kbps

- Intel TX Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 64MB SDRAM, 256MB Max
- 6.4GB Hard Drive (Upgraded from 3.1GB)
- 32X Max EIDE CD-ROM
- ATI 3D XPRESSION RAGE II+ 4MB PCI VGA CARD (Upgraded from S3 Virge 4MB PCI)
- 15" .28DP SVGA Color Monitor Flat Screen, MPR II
- ABS 3D Wavetable Sound Card w/3D Effect, 128 Sound, 32 Voice
- Microphone
- Powered Stereo Speakers, 15W RMS, 80W PMPO
- 56K X2 Technology Modem
  Voice Mail, Internet ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- Genius PS/2 Net Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- 8 Bay Medium Tower Case, Tool-Free, Screwless
- Microsoft Windows '95 w/ USB Support, pre-installed w/manuals & CD
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite'97

Internet Friendly:

★★★★★ **Cyrix 6x86 MX**

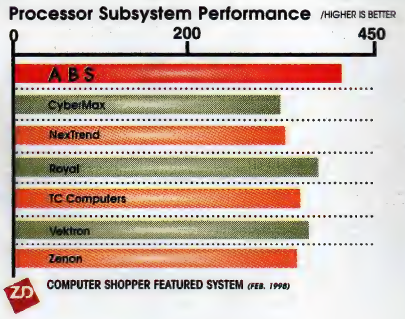
200 MHZ/#5190 $ 949

★ **AMD K6**

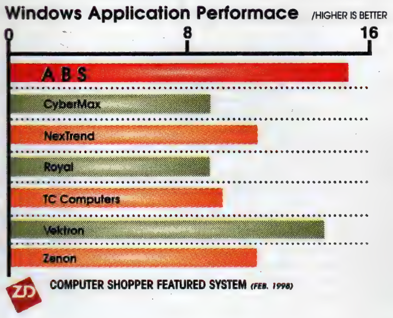
200 MX PR/#5191 $ 999

★ **Intel Pentium® MMX**

233 MHZ/#5192 $ 1039
200 MHZ/#5193 $ 999



COMPUTER SHOPPER FEATURED SYSTEM *(FEB. 1998)*



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8 Years/Last 8 years in....

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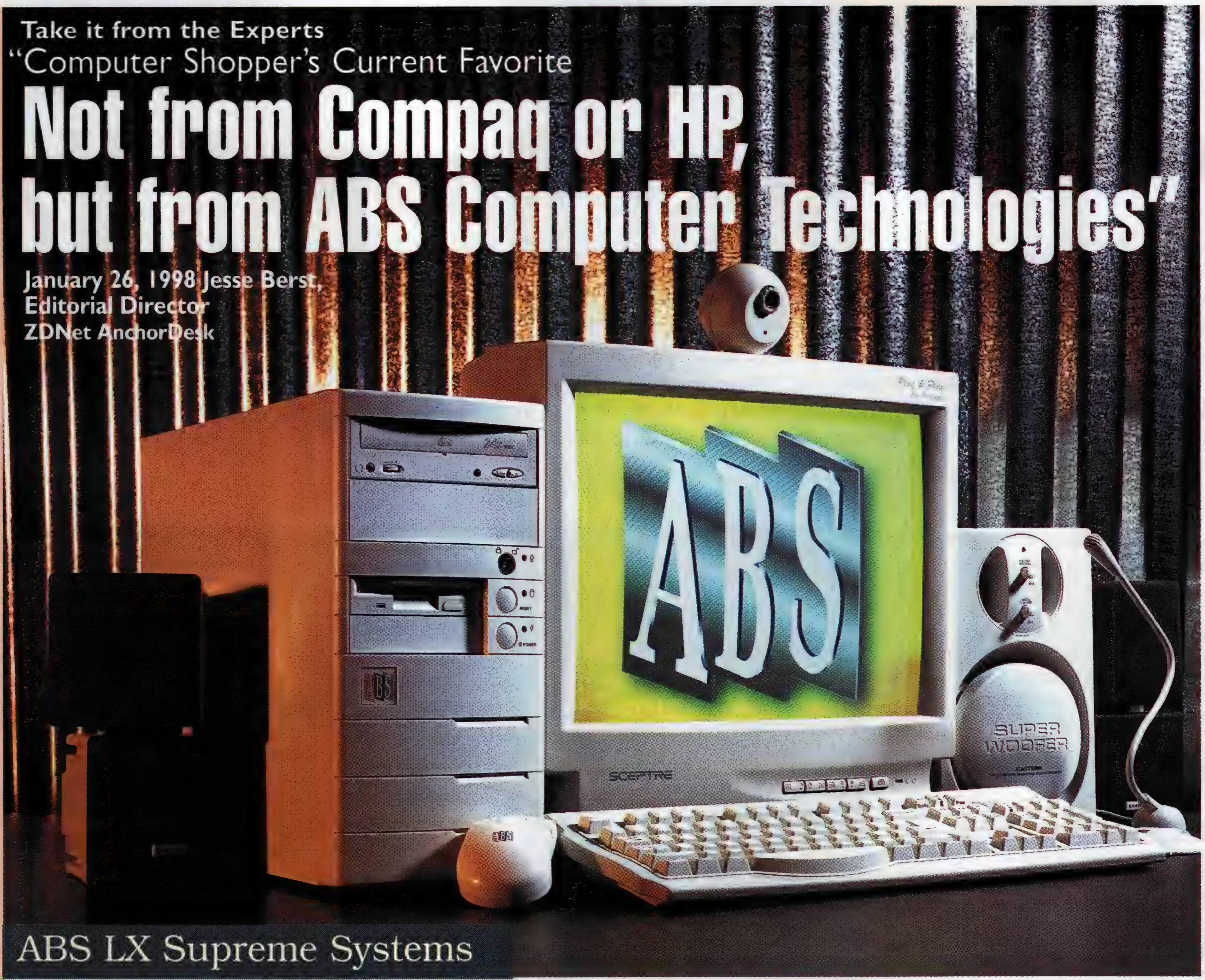


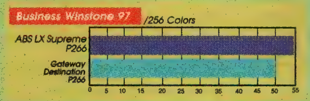
Take it from the Experts

"Computer Shopper's Current Favorite

Not from Compaq or HP, but from ABS Computer Technologies"

January 26, 1998 Jesse Berst,
Editorial Director
ZDNet AnchorDesk

ABS LX Supreme Systems



COMPUTER SHOPPER FEATURED SYSTEM (NOV. 1997)

The ABS LX Supreme Powers Up With a Pentium II and AGP

"with personal computing headed towards the exclusive use of 32-bit applications, it certainly doesn't hurt to have a CPU and memory configuration optimized for that environment-packed with new high-end technology the system is priced comfortably at the lower end of the range for similiar configurations. PII clock speeds running well above the 300Mhz mark, the 266Mhz version seems poised to become 1998's mainstay.

"Source Page 279-28 Computer Shopper Nov. 1997

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3D 2

64MB/8.0GB/32X/17"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP
- 64MB FAST SDRAM, 384MB Max PnP Bios
- 8.0GB Ultra IDE Hard Drive
- 32X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **ATI AGP Xpert @ Work 4MB Video Card 3D Rage Pro Chipset "DVD Ready" MPEG**
  High Res 1600x1200 @ 75Hz, 16.7 Million Color. Flicker Free up to 200Hz
- 17" .28DP SVGA Color Monitor Flat Screen, MPR II
- Creative Labs SoundBlaster AWE 64 Sound Card
- Powered Stereo Speakers, 15W RMS, 80W PMPO & Microphone
- 56K X2 Technology Modem Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel, 1 Game Port, 2 USB Ports
- Genius PS/2 Net Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

PC MAGAZINE EDITORS' CHOICE

ATI All in Wonder Pro

★ **Intel Pentium® II 512 K Processor**
All BX Models come w/ Intel BX Chipset Mother Board

400 MHZ/#BX5020	**$ 2209**
350 MHZ/#BX5021	$ 1989
333 MHZ/#5022	$ 1809
300 MHZ/#5023	$ 1649
266 MHZ/#5024	$ 1569
233 MHZ/#5025	$ 1479

3D 3

64MB/6.4GB/32X/17"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port)
- 64MB FAST SDRAM, 384MB Max PnP Bios
- 6.4GB Ultra IDE Hard Drive
- 32X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **ATI 4MB AGP Xpert XL 3D Rage Pro Chipset "DVD Ready"**
  Optional:TV Tunner Upgrade, True Color Video up to 1280x1024
- 17" .28DP SVGA Color Monitor Flat Screen, MPR II
- Creative Labs SoundBlaster AWE 64 Sound Card
- Powered Stereo Speakers, 15W RMS, 80W PMPO & Microphone
- 56K X2 Technology Modem Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3-Button Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

400 MHZ/#BX5030	**$ 2139**
350 MHZ/#BX5031	$ 1919
333 MHZ/#5032	$ 1739
300 MHZ/#5033	$ 1589
266 MHZ/#5034	$ 1499
233 MHZ/#5035	$ 1409

3D 4

64MB/6.4GB/24X/15"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port)
- 64MB FAST SDRAM, 384MB Max PnP Bios
- 6.4GB Hard Drive
- 24X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **ATI 4MB AGP Xpert XL 3D Rage Pro Chipset "DVD Ready"**
  Optional:TV Tunner Upgrade, True Color Video up to 1280x1024
- 15" .28DP SVGA Color Monitor
- Creative Labs SoundBlaster AWE 64 Sound Card
- Subwoofer Sound System w/Microphone 1 Subwoofer, Satellite Speakers (2 Woofers & 2 Tweeters) Total RMS Output 25 Watts, 4 Ohms "Ideal for Super Bass/High Fidelity"
- 56K X2 Technology Modem Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel,1 Game Port, 2 USB Ports
- ABS 3-Button Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

400 MHZ/#BX5040	**$ 1979**
350 MHZ/#BX5041	$ 1759
333 MHZ/#5042	$ 1579
300 MHZ/#5043	$ 1419
266 MHZ/#5044	$ 1339
233 MHZ/#5045	$ 1249

3D 5

32MB/4.3GB/24X/15"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port)
- 32MB SDRAM, 384MB Max PnP Bios
- 4.3GB Ultra IDE Hard Drive
- 24X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **ATI 4MB AGP Xpert XL 3D Rage Pro Chipset "DVD Ready" MPEG**
  True Color Video upto 1280x1024 Optional:TV Tunner Upgrade
- 15" .28DP SVGA Color Monitor
- Sound Blaster 16 Sound Card
- Powered Stereo Speakers, 15W RMS, 80W PMPO & Microphone
- 56K X2 Technology Modem Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3-Button Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

★ **Intel Pentium® II 512 K Processor**
All BX Models come w/ Intel BX Chipset Mother Board

400 MHZ/#BX5050	**$ 1859**
350 MHZ/#BX5051	$ 1639
333 MHZ/#5052	$ 1459
300 MHZ/#5053	$ 1299
266 MHZ/#5054	$ 1219
233 MHZ/#5055	$ 1129

3D 6

32MB/3.2GB/24X/15"/33.6Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port)
- 32MB SDRAM, 384MB Max PnP Bios
- 3.2GB Ultra IDE Hard Drive
- 24X Max EIDE CD-ROM *(Optional DVD-ROM)*
- **Trident 4MB AGP Video Card**
- 15" .28DP SVGA Color Monitor
- ABS 3D Wavetable Sound Card w/3D Effect, 128 Sound, 32 Voice
- Powered Stereo Speakers, 15W RMS, 80W PMPO & Microphone
- 33.6Kbps Fax Modem V.34 w/ Voicemail, Internet Ready
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial,1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3-Button Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

400 MHZ/#BX5060	**$ 1779**
350 MHZ/#BX5061	$ 1559
333 MHZ/#5062	$ 1379
300 MHZ/#5063	$ 1219
266 MHZ/#5064	$ 1139
233 MHZ/#5065	$ 1039

DVD 17

64MB/6.4GB/DVD/17"/56Kbps

- Intel LX Chipset MB w/ PII CPU w/AGP (Accelerated Graphic Port)
- 64MB SDRAM, 384MB Max PnP Bios
- 6.4GB Ultra IDE Hard Drive
- Toshiba 2nd Generation DVD CD-ROM
- **ATI AGP Xpert @ Play 4MB Video Card 3D Rage Pro Chipset "DVD Ready" MPEG**
  High Res 1600x1200 @ 75Hz, 16.7 Million Color, Flicker Free up to 200Hz
- **17" SVGA Color Monitor, Flat Screen, MPR II**
- Ensoniq PCI 32-bit Wavetable 3D Sound Card
- Subwoofer Sound System w/Microphone, 1 Subwoofer, Satellite Speakers (2 Woofers & 2 Tweeters) Total RMS Output 25 Watts, 4 Ohms "Ideal for Super Bass/High Fidelity"
- 56K X2 Technology Modem Voice Mail, Internet Ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3-Button Mouse & ABS Mouse Pad
- ABS 104 Key Win '95 Keyboard
- ATX Tower Case
- Microsoft Windows '95 w/ USB Support, ISP pre-installed includes CD, manual and Disk
- Free Software : Grolier's Encyclopedia & Lotus Smartsuite '97

400 MHZ/#BX5070	**$ 2319**
350 MHZ/#BX5071	$ 2109
333 MHZ/#5072	$ 1939
300 MHZ/#5073	$ 1789
266 MHZ/#5074	$ 1709

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" ABS PC the best performer... "

Michael J. Miller,
Editor-in-Chief PC Magazine.

ABS Multimedia Systems

#1

64MB/8.0GB/32X/17"/56Kbps

- Intel TX Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 64MB SDRAM, 256 MB Max
- 8.0GB Ultra IDE Hard Drive
- 32X Max EIDE CD-ROM
- **ATI All-in-Wonder 4MB PCI VGA CARD w/ TV Tunner and Video Capture**
- 17" .28DP SVGA Color Monitor, Flat Screen, MPR II
- Creative Labs SoundBlaster AWE 64 Sound Card
- Powered Stereo Speakers, 15W RMS, 80W PMPO, Microphone
- 56K X2 Technology Modem Voice Mail, Internet ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- Genius PS/2 Net Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- Medium Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, pre-installed w/manuals & CD
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite'97

#3

64MB/6.4GB/32X/17"/56Kbps

- Intel TX Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 64MB SDRAM, 256 MB Max
- 6.4GB Ultra IDE Hard Drive
- 32X Max EIDE CD-ROM
- **ATI 3D XPRESSION RAGE II+ 4MB PCI VGA CARD High Res 1280x1024 @ 75Hz, 16.7 Million Colors Flicker Free up to 200Hz**
- 17" .28DP SVGA Color Monitor, Flat Screen, MPR II
- ABS 3D Wavetable Sound Card w/3D Effect, 32 Voice, 128 Sound
- Powered Stereo Speakers, 15W RMS, 80W PMPO, Microphone
- 56K X2 Technology Modem Voice Mail, Internet ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3 Button Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- Mini Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, pre-installed w/manuals & CD
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite'97

#4

32MB/4.3GB/24x/14"/56Kbps

- Intel Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 32MB EDO RAM (60ns), 256 MB Max
- 4.3GB Hard Drive
- 24X Max EIDE CD-ROM
- **64 Bit PCI 3D SVGA w/2MB MPEG**
- 14" .28DP SVGA Color Monitor
- ABS 3D Wavetable Sound Card w/3D Effect, 32 Voice, 128 Sound
- Powered Stereo Speakers, 15W RMS, 80W PMPO, Microphone
- 56K X2 Technology Modem Voice Mail, Internet ready, Full Duplex
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3 Button Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- Mini Tower or Desktop Case
- Microsoft Windows '95 w/ USB Support, pre-installed w/manuals & CD
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite'97

USR Sportster

★ **Intel Pentium® MMX**

	#1		#3		#4	
233 MHZ	#5080	$ 1389	#5090	$ 1229	#5100	$ 889
200 MHZ	#5081	$ 1349	#5091	$ 1189	#5101	$ 849
★ Cyrix 6x86 200 MX PR	#5082	$ 1299	#5092	$ 1139	#5102	$ 799
★ AMD K6 200 MX PR	#5083	$ 1349	#5093	$ 1189	#5103	$ 849

ABS Business Systems

NET Meeting Power

#1

64MB/4.3GB/24X/15"/56Kbps

- Intel TX Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 64MB FAST SDRAM, 256MB Max
- 4.3GB Ultra IDE Hard Drive
- 24X Max EIDE CD-ROM
- VDO Camera w/Video Capture Card
- **ATI 3D XPRESSION RAGE II+ 4MB PCI VGA CARD** High Res 1280x1024 @ 75Hz, 16.7 Million Colors Flicker Free up to 200Hz
- 15" .28DP SVGA Color Monitor
- ABS 3D Wavetable Sound Card w/3D Effect, 32 Voice, 128 Sound
- MIC w/ Powered Stereo Speakers, 15W RMS, 80W PMPO
- 56K X2 Technology Modem Voice Mail, Internet ready, Full Duplex
- PCI 32 bit Jumperless Network Card
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3 Button Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- Mini Tower or Desktop Case
- Microsoft Windows '95 pre-installed w/manuals & CD
- Free Software: Grolier's Encyclopedia & Lotus Smartsuite'97
- Iomega Zip Drive

Iomega Zip Drive

★ **Intel Pentium® MMX**

233 MHZ	#5110	$ 1249
200 MHZ	#5111	$ 1179
★ Cyrix 6x86 200 MX PR	#5112	$ 1119
★ AMD K6 200 MX PR	#5113	$ 1179

Workstation Power

#2

32MB/3.2GB/24X/14"

- Intel Chipset Motherboard 512KB Pipeline Burst Cache PnP Bios
- 32MB EDO RAM (60ns), 256MB Max
- 3.2GB Ultra IDE Hard Drive
- 24X Max EIDE CD-ROM
- **64 bit PCI 3D SVGA w/2MB MPEG**
- 14" .28DP SVGA Color Monitor
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3 Button Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- Microsoft Windows '95 pre-installed w/manuals & CD
- Mini Tower or Desktop Case

★ **Intel Pentium® MMX**

233 MHZ	#5120	$ 789
200 MHZ	#5121	$ 759
★ Cyrix 6x86 200 MX PR	#5122	$ 709
★ AMD K6 200 MX PR	#5123	$ 759

SCSI Power

#3

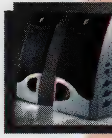
64MB/9.1GB SCSI /32X SCSI/14"

- TYAN DUAL PII/Intel LX Chipset Motherboard
- 64MB FAST SDRAM, 384MB Max
- Adaptec 2940 UW SCSI Controller Card
- 9.1GB UW SCSI Hard Drive
- 32X Max SCSI CD-ROM
- **64 Bit PCI 3D SVGA w/2MB MPEG**
- 14" .28DP SVGA Color Monitor
- PCI 32 bit Jumperless Network Card
- 1.44MB Floppy Drive
- High Speed I/O Ports: 2 Serial, 1 Parallel, 1 Game Port, 2 USB Ports
- ABS 3 Button Mouse & ABS Mouse Pad
- ABS 104-key Win '95 Keyboard
- 10 Bay Full Tower Case
- Microsoft Windows NT Workstation OS

★ **Intel Pentium® II 512 K Processor:**

400 MHZ	#5130	$ 2999
350 MHZ	#5131	$ 2799
333 MHZ	#5132	$ 2399
300 MHZ	#5133	$ 2239
266 MHZ	#5134	$ 2139
233 MHZ	#5135	$ 2059

★ 30W RMS, 200W PMPO



Encarta '97

ABS Notebooks

6100

12.1" TFT/32MB/20X

- 12.1" TFT Display 800X600
- 32MB EDO DIMM Memory upgradable to 128MB
- 20X CD ROM removable module
- Removable Hard Drive
- 1.44MB 3.5"FD swappable w/ CD ROM
- **64 bit VGA w/2MB**
- Lithium Ion Battery
- 16-bit stereo sound w/built-in speakers & mic
- PCMCIA Slots, Two Type II/One Type III
- Card Bus Compliant, ZV port support
- Ports: 1 S, 1 P, 1 PS/2, FIR, CRT, TV Out, Port Replicator
- Windows '95 preinstalled w/Manual & CD
- Carrying Case and AC Adapter
- 1 Year Parts & 3 Years Labor Warranty

6200

13.3"XGA/48MB/20X

- 13.3" XGA Display 1024x768
- 48MB EDO DIMM Memory upgradable to 256MB
- 20X Modular 5.25" Removable CD ROM (*optional DVD-ROM, 2nd HDD, ZIP, 2nd battery*)
- Removable Hard Drive
- 1.44MB Modular 3.5" Removable FD
- **Trident 9397 VGA w/4MB SGRAM**
- Lithium Ion Battery
- 64-Stream ESS audio processor on PCI, w/built-in speakers & mic
- 16 bit Stereo Sound w/built-in speakers & mic
- PCMCIA Slots, Two Type II/One Type III
- Card Bus Compliant, ZV port support
- Ports: 2 USB, 1 S, 1P, 1PS2, IEEE 1394, TV In/Out, (S-connector), FIR, CRT, Port Replicator
- Windows '95 preinstalled w/Manual & CD
- Carrying Case and AC Adapter
- 1 Year Parts & 3 Years Labor Warranty

6300

14.1"XGA/48MB/20X

- 14.1" XGA Display 1024x768
- Intel Mobile Module Tillamook 233/266Mhz
- 48MB EDO DIMM Memory upgradable to 256MB
- 20x Modular 5.25" Removable CD ROM (*optional DVD-ROM, 2nd HDD, ZIP, 2nd battery*)
- Removable Hard Drive
- 1.44MB 3.5" Built-in
- **Trident 9397 VGA w/4MB SGRAM**
- Lithium Ion Battery
- 64-Stream ESS audio processor on PCI, w/built-in speakers & mic
- PCMCIA Slots, Two Type II/One Type III
- Card Bus Compliant, ZV port support
- Ports: 1 S, 1 P, 1 PS/2, Port Replicator, USB, TV Out & Infrared
- Windows '95 preinstalled w/Manual & CD
- Carrying Case and AC Adapter
- 1 Year Parts & 3 Years Labor Warranty

★ **Intel Pentium® MMX**

6100		6200		6300	
166 MMX/w 2.0GB #5140	$ 1499	200 MMX/w 2.0GB #5150	$ 2139	233 MMX/w 2.0GB #5160	$ 2669
166 MMX/w 3.0GB #5141	$ 1549	200 MMX/w 3.0GB #5151	$ 2189	233 MMX/w 3.0GB #5161	$ 2719
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DVD ROM Kit	
DVD ROM w/ RealMagic MPEG Decoder(Hollywood)	$249
DVD ROM Upgrade....*for PII 266-350....from 24x*	Plus $89
from 32x	Plus $69

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work with ATI TV Tuner/Capture Card or ATI All-in-Wonder	
VDO Camera & Video Capture Card	Plus $119

Memory

(from 32MB SDRAM)	
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128MB SDRAM	Plus $230

Modem

(from 33.6K w/Voice)	
USR 56K Fax/Modem w/Voice	Plus $95
56K X2 (or 56Kflex) Fax/Modem	Plus $35

Mouse

(from ABS 3 Button Mouse)	
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Upgrade from 64 Bit 2MB PCI to ATI VGA Card	
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All-In-Wonder PRO w/ TV Tunner AGP 4MB/8MB	Plus $195 /$245
XPERT @ Work SGRAM AGP 4MB/8MB	Plus $95/$140
XPERT @ Play SGRAM AGP 4MB/8MB	Plus $120/$160
Upgrade from 64 Bit 2MB PCI to Diamond VGA Card	
Diamond Fire GL 1000 4MB AGP	Plus $128
Diamond Monster 3D Accelerator	Plus $145
Upgrade from 64 Bit 2MB PCI to Matrox VGA Card	
Matrox Millennium II 8MB PCI	Plus $200
Matrox Millennium II 8MB AGP	Plus $215
Matrox Mystique 220 2MB/4MB SGRAM	Plus $65/$90

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Upgrade from 17".28 to Sceptre monitors	
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Sceptre P75A 17".26	Plus $85
Upgrade from 17".28 to CyberVision monitors	
CyberVision DS86 17".27 SVGA	Plus$105
CyberVision DS95 21".25 SVGA	Plus$595
Upgrade from 17".28 to Optiquest monitors	
Optiquest V773 17".26 SVGA	Plus $125
Optiquest V775 17".26 SVGA	Plus $165
Optiquest V95 19".26 SVGA	Plus $405
Upgrade from 17".28 to ViewSonic monitors	
ViewSonic GT775 17".27 SVGA	Plus $265
ViewSonic G790 19".26 SVGA	Plus $455
ViewSonic G810 21".25 SVGA	Plus $655

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Iomega Zip 100 MB Drive Internal/External	$89/$139
Iomega Jaz 1.0GB Drive Internal/External	$295/$395
Iomega Ditto TBU 2.0GB Internal/External	$295/$395
HP Colorado T3000 TBU 3.2GB Internal	$159
HP Colorado T4000 TBU 4.0-8.0GB SCSI Int/Ext	$349/440

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Microsoft® Family Bundle '98	$59
Microsoft® Office Pro '97 (Academic)	$189
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Brain Food Game Pak CD	$29
10 CD Pack w/ Encyclopedia & more	$29
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Actua Soccer	*Plus $10
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Speakers

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30W RMS, 200W PMPO	Plus $15
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- 64MB SDRAM
- 4.3GB Hard Drive
- Cirrus Logic Laguna 3D PCI Graphics w/ 4MB RDRAM
- MaxVision 17" (15.7" VA) Color Monitor by CyberMax
- 32x Max EIDE CD-ROM
- **Your choice of:** K56flex™ Voice/Fax Modem w/ Speakerphone (V.90-ready) ***OR*** Intel EtherExpress Pro 100 PCI Ethernet Card
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- 100MB Internal Zip Drive
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- AMD-K6™ 266MHz Processor w/ MMX™ Technology
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- 4.3GB Hard Drive
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- DVD-ROM II (20X CD-ROM)
- K56flex™ Voice/Fax Modem w/ Speakerphone (V.90-ready)
- Ensoniq AudioPCI™ 32-bit Sound
- Altec Lansing ACS490 Speakers & Subwoofer
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ValueMax PII-266

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- Intel LX Chipset
- 4.3GB Hard Drive
- Intel740 3D AGP Graphics w/ 4MB SGRAM
- MaxVision 17" (15.7" VA) Color Monitor by CyberMax
- 32x Max EIDE CD-ROM
- K56flex™ Voice/Fax Modem w/ Speakerphone (V.90-ready)
- Ensoniq AudioPCI™ 32-bit Sound
- Altec Lansing ACS90 Speakers
- Corel WordPerfect Suite 8 & Max's Productivity Pack

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- Upgrade to 19" Monitor........$199

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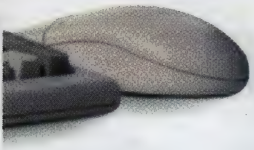

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- Real Magic MPEG-2 Card
- 6.4GB SCSI Hard Disk • 1.44MB Floppy Disk Drive
- IO Mega Zip Drive, Int.
- 64-Bit ATI Expert @ Work AGP, 4MB
- Rockwell 56K Fax/Data/Voice Modem, Int.
- ***Macrex Digital PC Camera***
- Sound Blaster AWE64, Value
- Speakers w/Sub-Woofer • Microphone
- 104-Key Win95 Keyboard • ***Touch Pad***
- One Year On-Site Service
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Intel Pentium II 266 CPU	**$2,460**
Intel Pentium II 300 CPU	**$2,600**

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- A-Trend 44LX Motherboard • 128MB RAM
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- 1.44MB Floppy Disk
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- IO Mega Zip Drive, Int.
- 64-Bit Matrox Mystique II 220, 4MB
- Rockwell 56K Fax/Data/Voice Modem, Int.
- ***Macrex Digital PC Camera***
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- Speaker w/Sub-Woofer
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- Pentium 430TX Chipset Mainboard • 64MB RAM
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- 1.44MB Floppy Disk Drive
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- ***Macrex Digital PC Camera***
- Rockwell 56K Fax/Data/Voice Modem, Int.
- Sound Blaster AWE64, Value
- Speakers w/Subwoofer
- Axion 15" .28mm Award Winning Monitor
- Microphone • ***Touch Pad***
- One Year On-Site Service
- 104-Key Win95 Keyboard • MS Win95, CD

Intel Pentium 200MMX	**$1,225**
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AMD K6 233	**$1,250**
AMD K6 200	**$1,210**

2nd Generation Suave Case

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- Pentium 430TX Chipset Mainboard
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- 1.44MB Floppy Disk Drive • 24X CD ROM Drive
- 64-Bit S3 Virge VGA w/2MB
- Rockwell 56K Fax/Data/Voice Modem, Int.
- NE2000 Ethernet Card
- ESS 1869 3D Sound Card • 100W Speakers
- Axion 15".28mm SVGA Award Winning Monitor
- One Year On-Site Service
- 3-Button Serial Mouse
- 104-Key Win95 Keyboard • MS Win95, CD

Intel Pentium 233MMX	**$930**
Intel Pentium 200MMX	**$865**
Intel Pentium 166MMX	**$845**
AMD K6 233	**$895**

FAMILY SERIES

Intel Pentium 166MMX $815

- Mini Tower Case
- Pentium 430TX Chipset Mainboard
- 32MB RAM
- 4.3GB Hard Disk Drive
- 1.44MB Floppy Disk Drive • 24X CD ROM Drive
- 64-Bit S3 Virge VGA w/2MB
- Rockwell 33.6K Fax/Data/Voice Modem, Int.
- ESS 1869 3D Sound Card • 100W Speakers
- Axion 15".28mm SVGA Award Winning Monitor
- One Year On-Site Service
- 3-Button Serial Mouse
- 104-Key Win95 Keyboard • MS Win95, CD

Intel Pentium 233MMX	**$900**
Intel Pentium 200MMX	**$835**
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- Pentium 430TX Chipset Mainboard
- 16MB RAM
- 4.3GB Hard Disk Drive
- 1.44MB Floppy Disk Drive • 24X CD ROM
- 64-Bit S3 Virge VGA w/2MB
- Rockwell 33.6K Fax/Data/Voice Modem, Int.
- ESS 1869 3D Sound Card • 100W Speakers
- Axion 15".28mm SVGA Award Winning Monitor
- One Year On-Site Service
- 3-Button Serial Mouse
- 104-Key Win95 Keyboard • MS Win95, CD

Intel Pentium 233MMX	**$885**
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AMD K6 233	**$850**
AMD K6 200	**$810**

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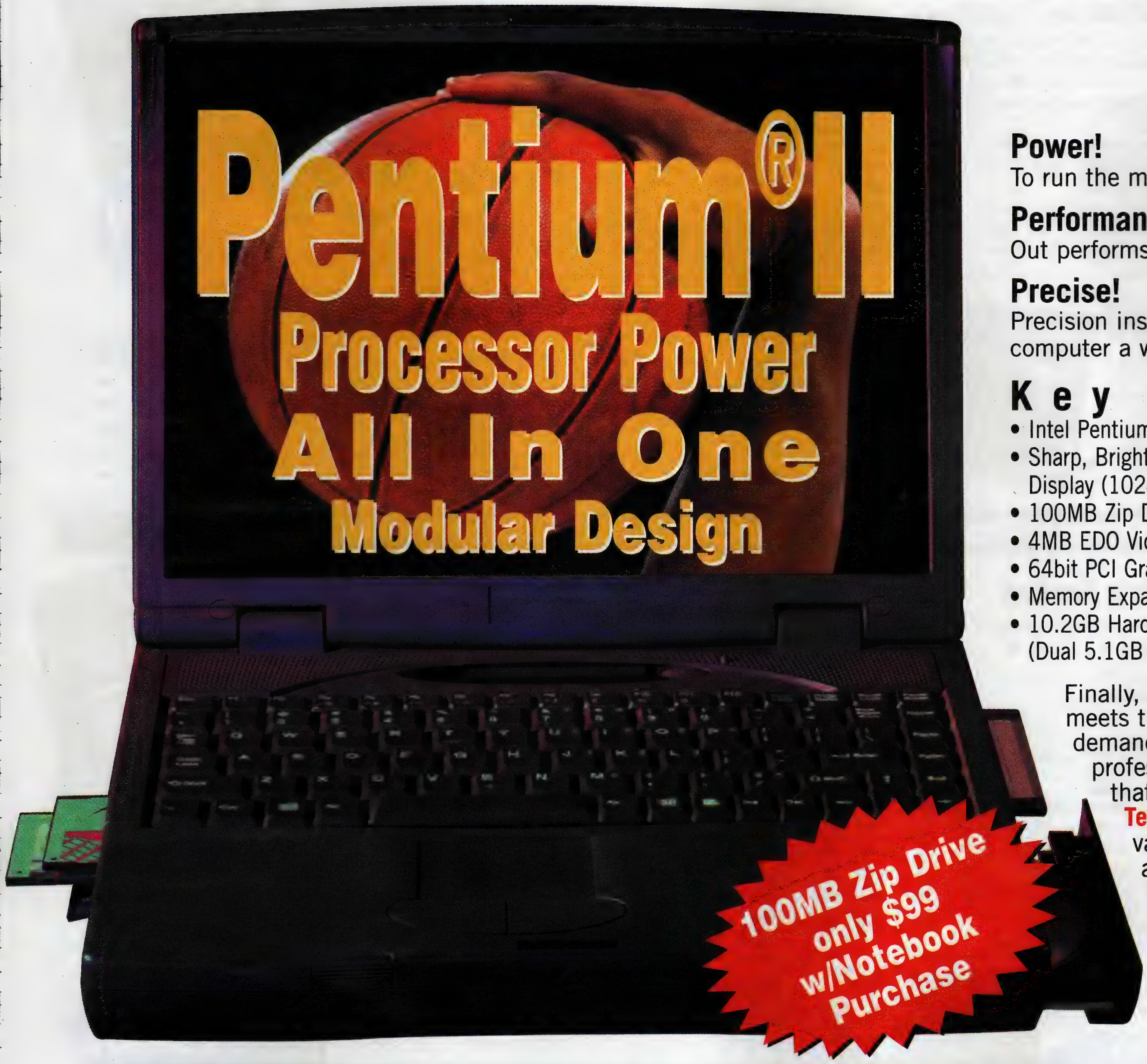

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#28626	380X	233MMX*	32/3.26GB/10-24X	12.1" HPA	$2,379	$95
#99915	380ED	166MMX*	16/3GB/20X	12.1" TFT	$2,659	$106
#28627	380XD	233MMX*	32/4.0GB/10-24X	12.1" TFT	$3,149	$126

*Pentium® processor with MMX™ technology.

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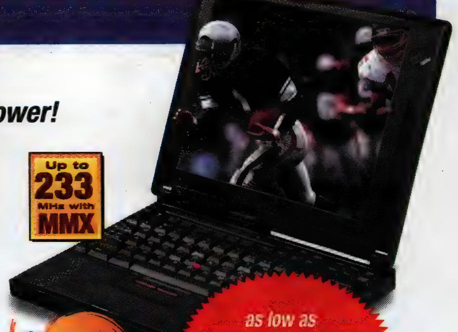
#96041	560E	166MHz MMX*	16/2.1GB	12.1" TFT	$2,849	$114
#11247	560X	233MHz MMX*	32/4GB	12.1" TFT	$3,419	$137

*Pentium® processor with MMX™ technology.



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#99908	770	233MHz	32/4.0GB/20X	13.3" TFT	7.1	$4,199	$168
#99910	770	233MHz	32/5.1GB/20X	14.1" TFT	7.1	$4,949	$198
#92851	760XL	166MHz	16/3GB	12.1" TFT	6.7	$3,749	$150
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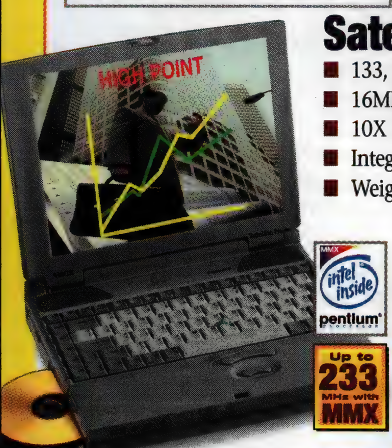

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#97051	440CDT	133 MMX*	16/1.44GB/10X	12.1" TFT	33.6	$1,949	$96
#24679	460CDX	166MMX*	32/2.1GB/10X	12.1" FSTN	—	$1,749	$70
#28416	470CDT	200MMX*	32/2.1GB/10X	12.1" TFT	33.6	$2,869	$115
#24680	480CDT	233MMX*	32/4GB/10X	12.1" TFT	33.6	$3,499	$140

*Pentium® processor with MMX™ technology.

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Up to 233 MHz with MMX

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#97055	530CDT	166 MMX*	32/2.1GB/10X	12.1" TFT	$3,099	$152
#28420	550CDT	266 MMX*	32/4GB/20X	12.1" TFT	$3,879	$155
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*Pentium® processor with MMX™ technology.

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#14253	SoundX S4500	166 MMX*	16/2.0GB/12X	12.1" TFT	7.6	$1,899	$76
#22646	SoundX S5500	233 MMX*	16/2.0GB/20X	13.3" XGA	6.4	$2,899	$116

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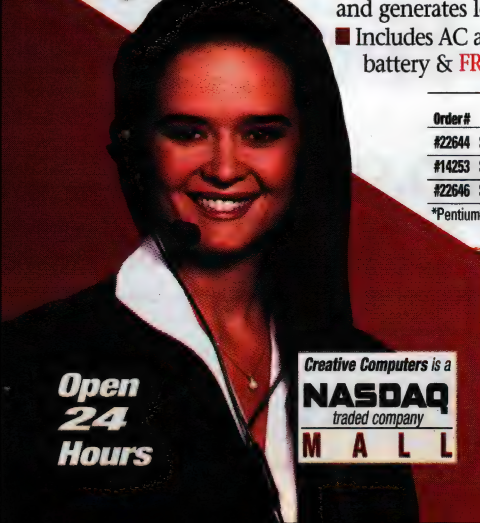
#11510	3010ECX	200MMX	64/3.1GB/20X	56K	14.1" TFT	7.5	$3,549	$142
#24133	5000ECX	233MMX	32/3.1GB/20X	56K	14.1" TFT	7.5	$3,649	$146
#14581	3020ECX	233MMX	64/3.1GB/20X	56K	14.1" TFT	7.5	$3,799	$152
#24132	5010ECX	233MMX	64/3.1GB/20X	56K	14.1" TFT	7.5	$3,749	$150
TravelPro Series								
#99152	106CS	166MMX	16/1.3GB	—	12.1" DSTN	6.9	$1,449	$58
#99153	106CT	166MMX	16/1.3GB	—	12.1" TFT	6.9	$1,999	$80
#11504	2035CX	233MMX	32/3.1GB/20X	33.6	13.3" TFT	6.3	$2,999	$120
Roadster Series								
#24865	10CS	166MMX	16/1.4GB/16X		12.1"DSTN	6.9	$1,499	$60



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#94064	1550DM	133MHz	16/1.4GB/10X	12.1" TFT	Win® 95/NT® 4.0	$1,699	$68
#14708	1540DM	150MHz MMX™	16/2.1GB/20X	12.1" CSTN	Win® 95	$1,859	$74
#26785	1560DM	166MHz MMX™	16/3.1GB/20X	12.1" CSTN	Win® 95/NT® 4.0	$1,949	$78
#14710	1590DMT	166MHz MMX™	16/2.1GB/20X	12.1" TFT	Win® 95	$2,599	$104
#26786	1592DMT	233MHz MMX™	32/3.1GB/20X	12.1" TFT	Win® 95/NT® 4.0	$3,179	$127

Armada 7300 Series

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#24711	7360DMT	200MHz w/MMX™	32/3.0GB/20X	12.1" TFT	Win® 95/NT® 4.0	6.0	$3,369	$135
#24712	7370DMT	233MHz w/MMX™	32/4.0GB/20X	12.1" TFT	Win® 95/NT® 4.0	6.0	$4,249	$170
#26787	7380DMT	266MHz w/MMX™	32/4.0GB/20X	12.1" TFT	Win® 95/NT® 4.0	6.0	$4,549	$182
#26788	7380/NT	266MHz w/MMX™	32/4.0GB/20X	12.1" TFT	Win® 95/NT® 4.0	6.0	$4,699	$188

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#94060	7710MT	150MHz w/MMX™	16/1.6GB	12.1" TFT	Win®95	7.9	$1,949	$78
#23932	7770DMT	233MHz w/MMX™	32/3.0GB/20X	12.1" TFT	Win®95	7.9	$3,849	$154
#26790	7792DMT	266MHz w/MMX™	32/5GB/20X	13.3" TFT	Win®95	7.9	$5,099	$204
#26789	7792DMT	266MHz w/MMX™	32/5GB/20X	13.3" TFT	Win NT 4.0	7.9	$5,199	$208

*Pentium® processor with MMX™ technology.

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- Lithium-Ion battery
- Weighs 7.3 lbs.

Up to 233 MHz with MMX

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Order#	Model	Processor	RAM/HD/CD	Color Display	Price	or Lease /Month
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#25725	1220	200 MediaGX	32/2.1/20X	12.1" HPA	$1,799	$72

Presario 1600 Series

Order#	Model	Processor	RAM/HD/CD	Color Display	Price	or Lease /Month
#25727	1621	AMD 233 K6	32/2.1/20X	12.1" HPA	$2,299	$92
#27822	1622	233 MMX*	32/3.2/20X	12.1" TFT	$2,299	$92
#25728	1681	233 MMX*	48/3.2/20X	12.1" TFT	$2,799	$112

Up to 266 MHz with MMX

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#26784	4220T	266MHz MMX	32/4GB	12.1" TFT	$3,899	$156

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166 MHz with MMX

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#94081	555TX	150MHz MMX™	16/2GB/10X	12.1" SVGA-TFT	6.8	33.6K	$1,899	$76
#98882	565TX	166MHz MMX™	32/2GB/20X	12.1" XGA-TFT	7.4	33.6K	$2,499	$160

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Up to 150 MHz with MMX

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#98343	635TX	133MHz MMX™	16/2.0GB/16X	12.1"TFT	4.4	33.6K	$1,799	$72
#94083	655TX	150MHz MMX™	16/1.3GB/8X	12.1" TFT	4.4	33.6K	$1,799	$72
#98883	656TX	150MHz MMX™	16/2.0GB/16X	12.1" TFT	4.4	33.6K	$2,799	$112

New!

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#28400	PLUS 5280	233MMX*	32	3.2GB	20X	12.1" HPA	56.6Kbps	$2,199	$88

*Pentium® Processor with MMX™ technology.

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- 16-bit Sound Blaster® Pro compatible

Order#	Model	Pentium® processor	RAM/HD/CD	Color Display	Price	or Lease /Month
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#28635	233VLT	233MMX	32/2.1/20X	12.1" TFT	$1,999	$80
#27986	685CDT	233MMX	32/2.1/20X	12.1" TFT	$2,699	$108
#27987	690CDT	266MMX	32/3.2/20X	12.1" TFT	$2,999	$120
#27988	770CDT	233MMX	32/2.1/20X	13.3" TFT	$3,099	$124
#27990	775CDT	266MMX	64/3.2/20X	13.3" TFT	$3,499	$140

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#15126	200MHz MMX*	32MB	2.5GB	16X	4/4	$1,239	$50
#96201	166MHz MMX*	16MB	2.5GB	—	4/4	$849	$34
#15124	233MHz MMX*	32MB	2.5GB	—	4/4	$1,169	$47
#96203	200MHz MMX*	32MB	2.5GB	16X	4/4	$1,169	$47
#27406	PII 233	32MB	2.5GB	16X	4/4	$1,259	$51
#27407	PII 266	32MB	2.5GB	16X	4/4	$1,459	$59
#27408	PII 266	32MB	4.2GB	16X	4/4	$1,519	$61
#27409	PII 266	32MB	4.2GB	16X	4/4	$1,569	$63
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#99888	200MHz w/MMX*	32	2.5GB	—	4 X 4	$1,219	$49
#99886	200MHz w/MMX*	32	4.2GB	—	4 X 4	$1,259	$50
#99884	200MHz w/MMX*	32	4.2GB	24X	4 X 4	$1,379	$56
#99878	233MHz w/MMX*	32	4.2GB	—	4 X 4	$1,389	$56
#99880	233MHz w/MMX*	32	4.2GB	24X	4 X 4	$1,499	$60
#99874	166MHz w/MMX*	32	2.5GB	—	6 X 6	$1,149	$46
#99876	200MHz w/MMX*	32	4.2GB	24X	6 X 6	$1,409	$56
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#94347	PII 233MHz	32MB	2.5GB	—	Windows® 95	$1,779	$71
#94336	PII 266MHz	32MB	4.6GB	16X	Windows NT™ 4.0	$2,239	$90
#94338	PII 266MHz	32MB	4.3GB	16X	Windows NT™ 4.0	$2,619	$105
#15120	PII 300MHz	32MB	4.2GB	16X	Windows® 95	$2,569	$103

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#27304	D5612A	233MHz MMX	16MB	2.1GB	Windows® 95	$1,059	$42
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#27357	D5711N	PII 233	32MB	3.2GB	Windows NT™	–	–	$1,329	$54
#27366	D5712A	PII 233	32MB	3.2GB	Windows® 95	–	10/100	$1,349	$54
#28137	D5719N*	PII 233	32MB	4.3GB	Windows NT™	24X	–	$1,779	$72
#27389	D5728N	PII 266	64MB	4.3GB	Windows NT™	24X	–	$2,129	$86
#27404	D5729N*	PII 266	64MB	6.4GB	Windows NT™	24X	–	$2,229	$90
#27397	D5734N	PII 300	64MB	4.3GB	Windows NT™	24X	–	$2,289	$92
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#28163	D4796N	PII 266	32MB	4.3GB	Windows NT™	24X	10/100	$2,059	$82
#28238	D4808N*	PII 266	32MB	4.3GB	Windows NT™	24X	10/100	$2,139	$86
#27502	D6490N	PII 266	32MB	4.5GB	Windows NT™	24X	10/100	$2,449	$98
#27503	D6491N	PII 300	64MB	6.4GB	Windows NT™	24X	10/100	$2,449	$98
#28239	D4803N*	PII 300	64MB	4.5GB	Windows NT™	24X	10/100	$3,159	$126
#27810	D6492N	PII 333	64MB	6.4GB	Windows NT™	24X	10/100	$2,749	$110
#28166	D4806N*	PII 333	32MB	2.5GB	Windows NT™	24X	10/100	$1,919	$77
#27811	D6493N*	PII 333	64MB	6.4GB	Windows NT™	24X	10/100	$2,819	$113
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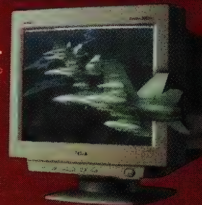

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#97428	233MHz w/MMX*	32	3.2GB	16X	DT	$1,199	$48
#14643	PII 233MHz w/MMX*	32	3.2GB	16X	DT	$1,499	$60
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*Pentium® processor with MMX™ technology.

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#97441	166MHz MMX*	32	3.2GB	16X	Minitower	$1,249	$50
#97442	200MHz MMX*	32	2.4GB	—	Desktop	$1,149	$46
#97421	233MHz MMX*	32	3.2GB	16X	Minitower	$1,349	$54
#14631	PII 233MHz	32	2.4GB	—	Desktop	$1,449	$58
#14633	PII 233MHz	32	3.2GB	16X	Minitower	$1,649	$66
#14627	PII 266MHz	32	3.2GB	16X	Desktop	$1,829	$74
#14635	PII 266MHz	32	3.2GB	16X	Minitower	$1,849	$74
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#14693	200MHz MMX*	32	1.6GB	Desktop	$999	$40
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Deskpro 4000S

Order#	Pentium® processor*	RAM	HD	Form Factor	Price	or Lease /Month
#14720	166MHz MMX*	16	2.1GB	Desktop	$899	$36
#14722	200MHz MMX*	16	2.1GB	Desktop	$999	$40
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#25869	4640	PII 266MHz MMX	48	4GB	DVD	56K	$1,499	$60
#25871	4660	PII 300MHz MMX	64	8GB	DVD	56K	$1,799	$72
#25872	4860	PII 333MHz MMX	64	8GB	DVD	56K	$2,299	$92

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#99864	G773	17"	16"	1280 x 1024 @ 66Hz	0.26mm	$499.99
#24073	G790	19"	18"	1600 x 1280 @ 76Hz	0.26mm	$899.99
#85945	G810	21"	20"	1600 x 1280 @ 71Hz	0.25mm	$1,199.99
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#99871	P775	17"	16"	1600 x 1280 @ 76Hz	0.25mm	$599.99
#84843	P810	21"	20"	1600 x 1280 @ 76Hz	0.25mm	$1,299.99
#27255	P815-2	21"	20"	1800 x 1440 @ 76Hz	0.25mm	$1,499.99
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#24962	E771	17"	16"	1280 x 1024 @ 66Hz	0.27mm	$419.99
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#14435	**HP DeskJet 890CSe Printer** 9ppm black, 5ppm color	$399.99
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#97439	**HP OfficeJet 500 Color Printer/Fax/Copier/Scanner**	$349.99
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- 600 x 600dpi with greater than 128 distinct levels of gray
- 6 ppm with 24MHz processor
- Factory Refurbished

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#95592	**HP LaserJet 6Pse** 600dpi, 8ppm	$799.99
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#22660	**HP LaserJet 4000se** 1200dpi, 17ppm	$1,149.99
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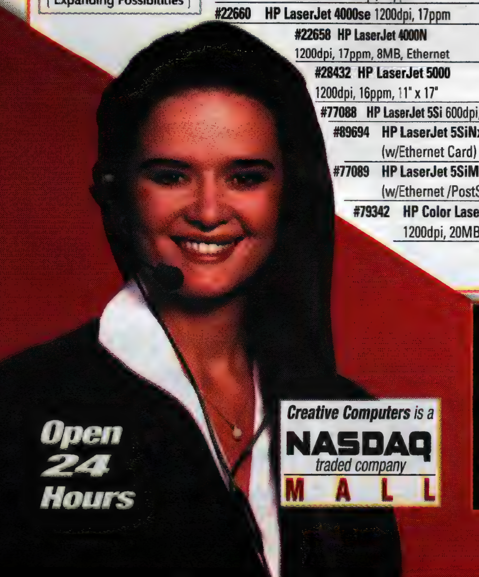

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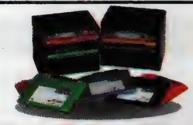

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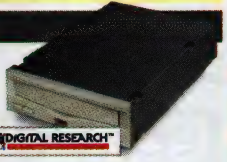

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CD Rewriteable 2x/2x/6x IDE CD

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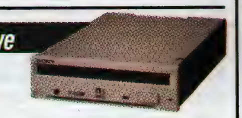

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	#27820	Medalist	2.1GB	EIDE/Ultra DMA	12ms	128K	4500	33.6MB/s	3 yrs.	$129.99
	#90694	Medalist	2.5GB	EIDE/ATA-2	11ms	128K	5400	16.6MB/s	3 yrs.	$139.99
	#26126	Medalist	3.2GB	EIDE/Ultra DMA	12ms	128K	4500	33.6MB/s	3 yrs.	$159.99
	#15389	Medalist	4.3GB	EIDE/Ultra DMA	12ms	128K	4500	33.6MB/s	3 yrs.	$179.99
	#30039	Medalist Pro	6.4GB	EIDE/Ultra DMA	9.5ms	512K	5400	33.6MB/s	3 yrs.	$219.99
Maxtor	#27320	DiamondMax	2.1GB	EIDE/Ultra DMA	9.7ms	256K	5200	33MB/s	3 yrs.	$149.99
	#25112	DiamondMax	4.3GB	EIDE/Ultra DMA	10ms	256K	5200	33MB/s	3 yrs.	$199.99
	#93594	DiamondMax	5.1GB	EIDE/Ultra ATA-2	10ms	256K	5400	16.7MB/s	3 yrs.	$209.99
Western Digital	#24431	Caviar	2.5GB	EIDE/ATA-2	12ms	128K	5200	16.6MB/s	3 yrs.	$149.99
	#26366	Caviar	3.2GB	EIDE/Ultra DMA	12ms	128K	5400	33MB/s	3 yrs.	$179.99
	#90696	Caviar	4.0GB	EIDE/ATA-2	12ms	256K	5200	16.5MB/s	3 yrs.	$199.99
	#99132	Caviar	5.1GB	EIDE/Ultra DMA	11ms	256K	5400	33MB/s	3 yrs.	$219.99
	#26357	Caviar	6.4GB	EIDE/Ultra DMA	9.5ms	256K	5400	33MB/s	3 yrs.	$279.99
Quantum	#15100	Fireball (Retail)	3.2GB	EIDE/ATA-2	10.5ms	128K	4500	16.7MB/s	3 yrs.	$189.99
	#27074	Fireball SE	4.3GB	EIDE/Ultra DMA	9.5ms	128K	5400	33MB/s	3 yrs.	$209.99
	#27075	Fireball SE	6.4GB	EIDE/Ultra DMA	9.5ms	128K	5400	33MB/s	3 yrs.	$259.99
	#27076	Fireball SE	8.4GB	EIDE/Ultra DMA	9.5ms	128K	5400	33MB/s	3 yrs.	$339.99
FUJITSU	#26360	Fujitsu	5.2GB	EIDE/Ultra DMA	10ms	128K	5400	33.6MB/s	3 yrs.	$259.99

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- 2GB capacity
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SONY

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- HP 36-bit color image processor; 30-bit converter
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#27291	Astra 1200S, 30-bit, 600x1200 opt. res, 9600 enhanced; SCSI	$299.99
#28029	PowerLook II, 36-bit, 600x1200 opt. res, 9600 enhanced; Trans Adapter	$1,295*

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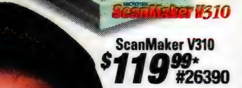

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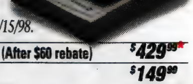

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#98514	Epson PhotoPC 600, 1024 x 768 New Low Price!	$499.99
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#98610	Ricoh RDC-300 Personal Digital Camera w/4MB Memory	$399.99
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#24556	Toshiba IK-MM1 Desktop Video Camera	$129.99
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#14495	New Olympus D-320L Digital Camera 2MB, 1024 x 768 res.	$599.99
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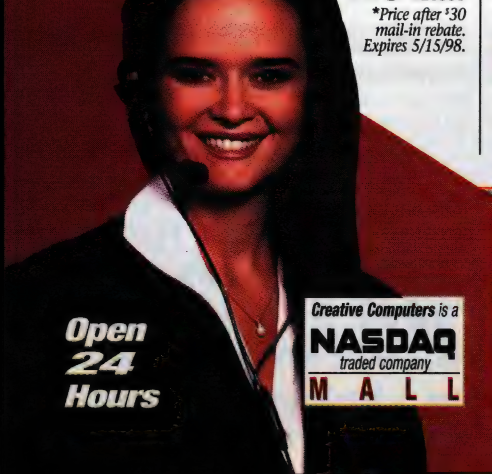

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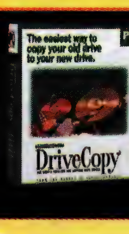

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#28304	USRobotics 56K Standard Fax/Voice Modem, Internal	$179.95
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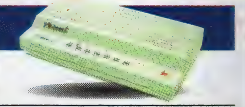

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3C509B-COMBO EtherLink® IIIB, ISA, 10Base-T, 10Base-2 & AUI	#71334 $115.99	#75588 $484.99	#75589 $1,794.99

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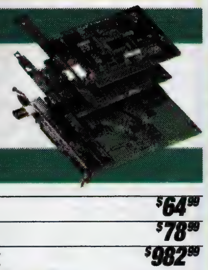

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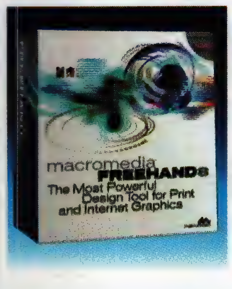

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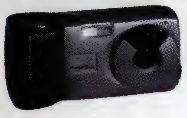

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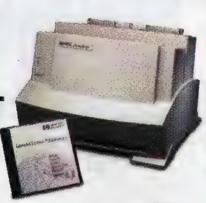

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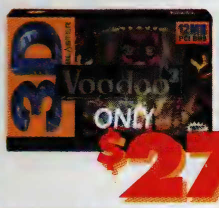

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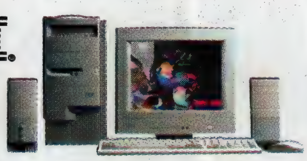

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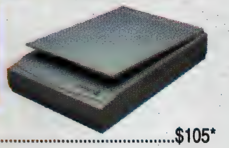

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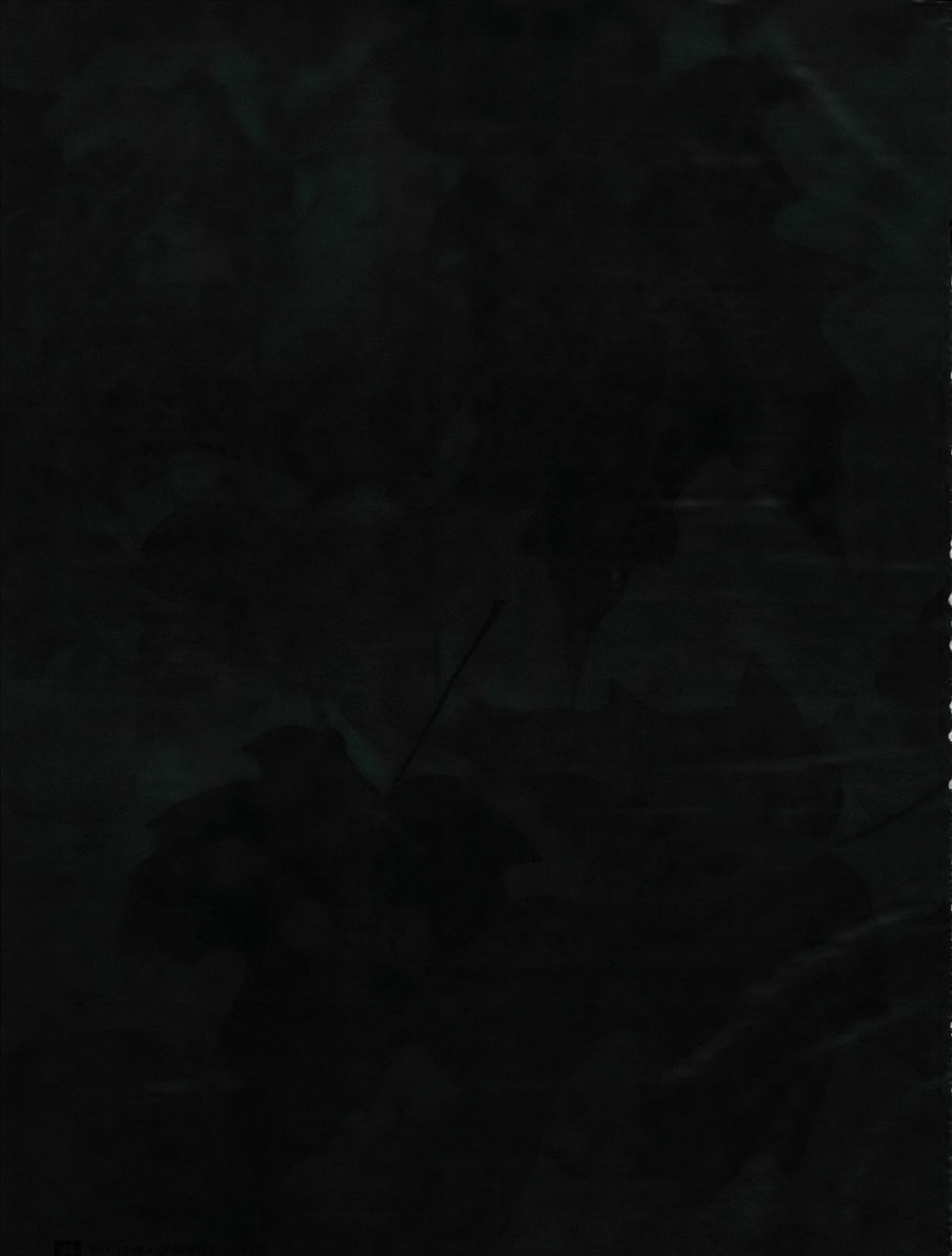

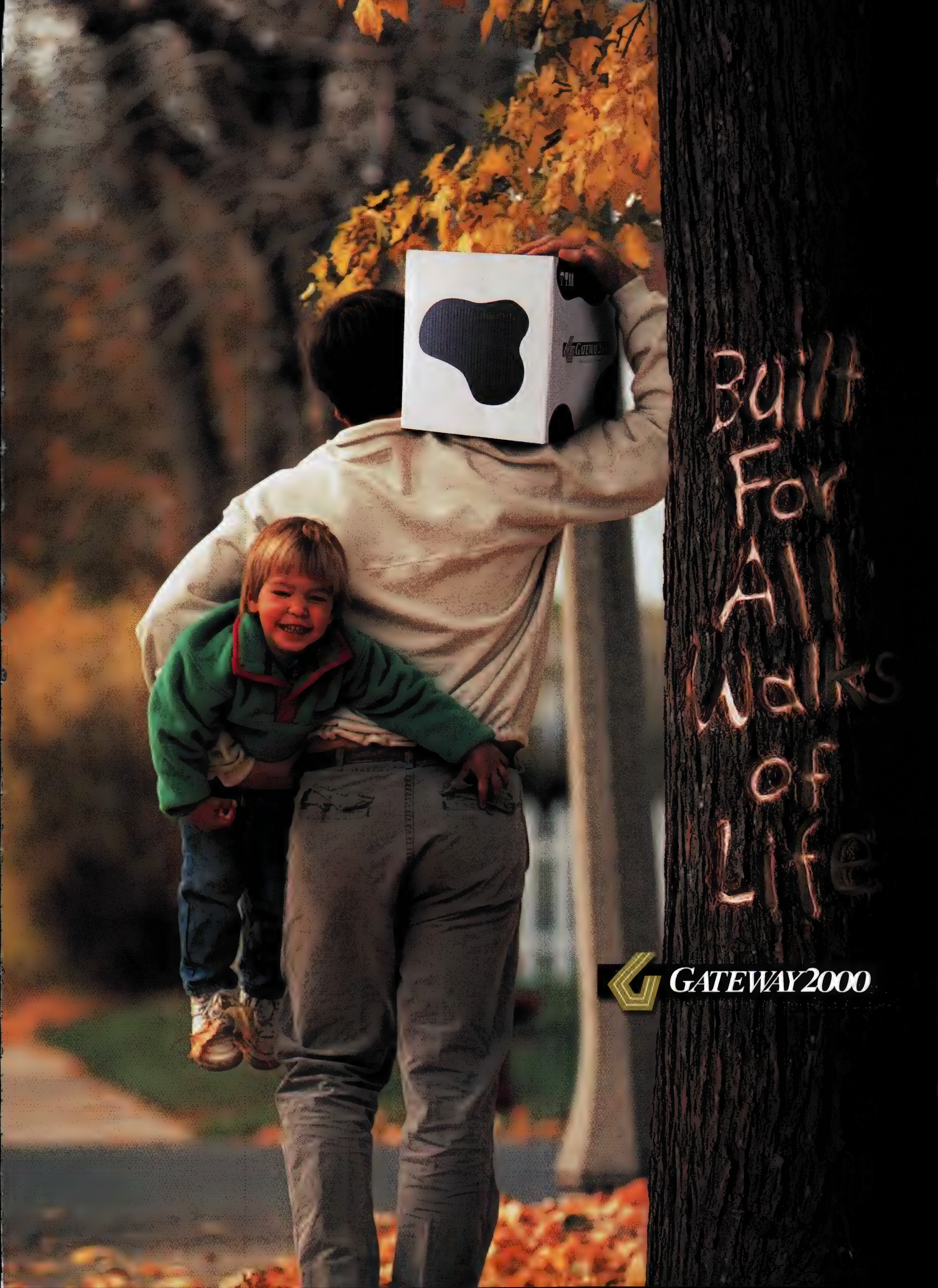
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PC World Best Buy, March 1998

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Data Grade CRT: 33" Diagonal (31.5" viewable) • Invar Shadow Mask • Resolution: 640 x 480 @ 60-72Hz, 800 x 600 @ 60Hz • Unlimited Display Colors • Scanning Frequency: Horizontal, 31 to 38kHz; Vertical, 50Hz to 72Hz

36-inch SVGA Monitor[*]

Data Grade CRT: 38" Diagonal (35.5" viewable) • Invar Shadow Mask • Resolution: 800 x 600 @ 60Hz • Unlimited Display Colors • Scanning Frequency: Horizontal, 31 to 37kHz; Vertical, 59Hz to 75Hz • Autoswitching PC/TV Mode

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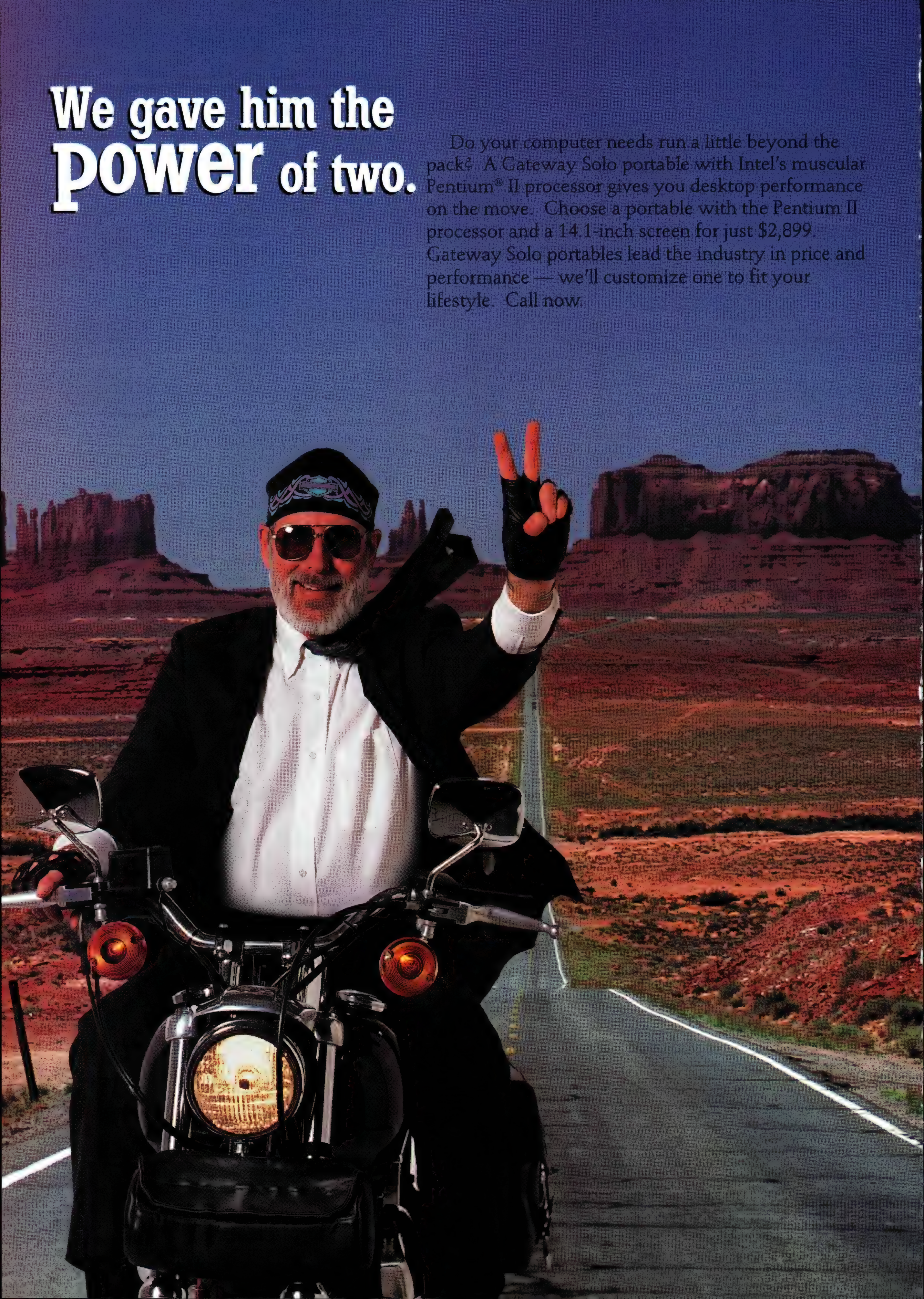

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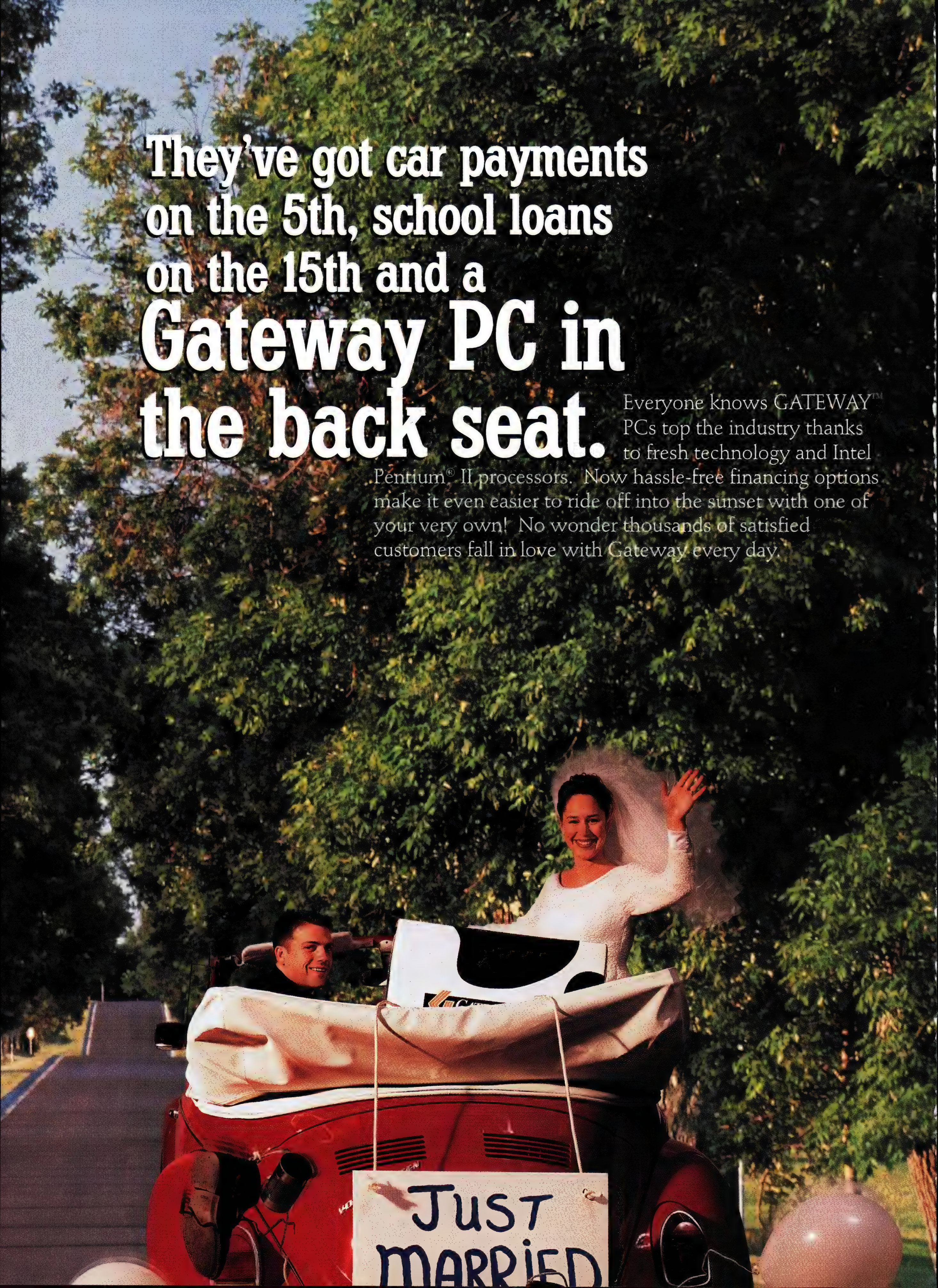

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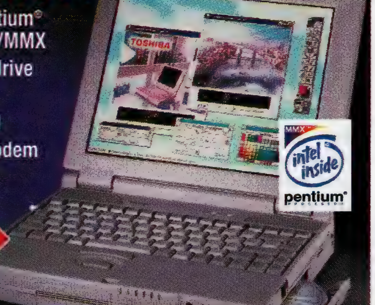

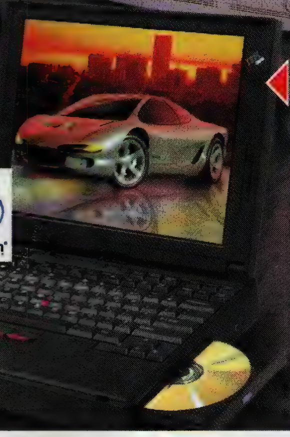

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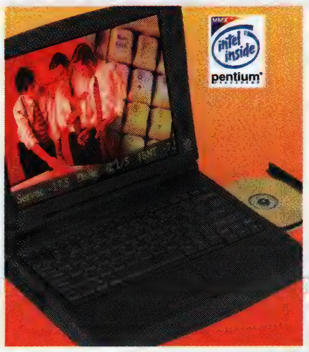

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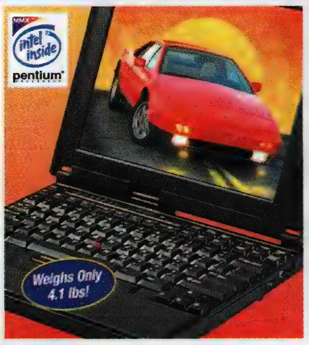

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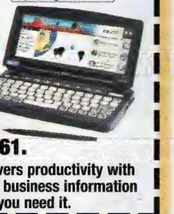

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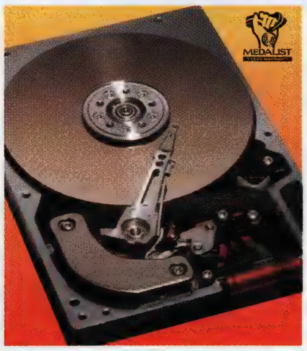
DR8079-8.6GB ST38641A	$379.95



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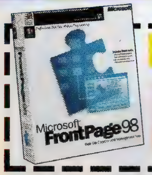
*ITU 56K standard compatible capable of 56Kbps downloads. Due to FCC regulations, download speeds are limited to 53Kbps. Actual speeds may vary.

U.S. Robotics

External modem shown.



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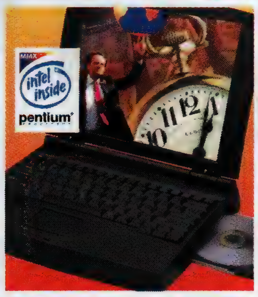

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Includes a 1.0GB Storage Cartridge with Jaz utility software!

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- PostScript Level 2

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HP 6LSE TONER CARTRIDGE ONLY $69.95. ASK FOR ITEM # 63222.

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- 17" (16" viewable)
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- 1024 x 768 @ 85Hz

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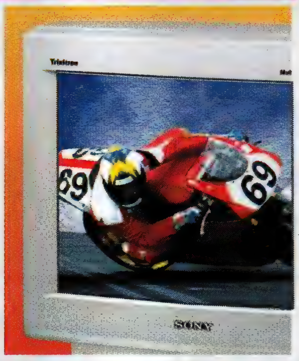

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PR12978: HP LaserJet 4000T (2-250 sheet trays)........$1259.00
PR12975: HP LaserJet 4000N (Ethernet/Localtalk) $1420.00
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Zip Multicolor 10-pack PC formatted disks only $149.95! Ask for item # ME7470.

- Store 100MB on each 3.5" disk
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Item # IN6675

*Price reflects manufacturer's $30 mail-in rebate. Price before rebate is $149.95. Ask for rebate coupon # AA0968. Offer expires 5/15/98.

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*With laptop purchase. Megahertz Combo Card and laptop must appear on same invoice. Offer valid from 3/1/98 – 5/31/98. Price without laptop purchase is $339.99. Ask for item # DMD3427.

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EX8638	AHA-2910C Fast SCSI Adapter w/o BIOS (PCI)	$99.95
EX8625	AHA-1520B Fast SCSI Adapter w/BIOS (ISA)	$129.95
EX8640	AHA-2920C Fast SCSI Adapter (PCI)	$149.95
EX7253	AHA-2940U Ultra SCSI Adapter (PCI)	$249.95
BND2453	AHA-2940U Bundle: Seagate Barracuda 4.35GB HD	$869.95
EX6683	AHA-2940UW Ultra-Wide SCSI Adapter (PCI)	$279.95
EX8565	AHA-2940U2W Ultra2-Wide SCSI Adapter (PCI)	$449.95
EX7606	APA-358 MiniSCSI Parallel Port Adapter	$129.95
EX8621	APA-1450B SlimSCSI PCMCIA for Removable Drives	$99.95
EX8622	APA-1460B SlimSCSI PCMCIA Fast SCSI-2 Adapter	$179.95

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EX7704	OverDrive 166MHz Pentium MMX	$189.95
EX8115	OverDrive 180MHz Pentium MMX	$239.95
EX8114	OverDrive 200MHz Pentium MMX	$279.95

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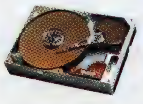

Item #	Model	Capacity	Interface	Price
DR8040	KO191150D	11.5GB	ULTRA DMA	$429.95*
DR7764	KO186400D	6.4GB	ULTRA DMA	$249.95*
DR6888	KO187000D	7.0GB	ULTRA DMA	$279.95*
DR7100	KO188400D	8.4GB	ULTRA DMA	$349.95*

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Seagate

Item #	Model	Capacity	Interface	Price
DR7324	ST31722A	1.7GB	ULTRA ATA	$139.95
DR7251	ST32122A	2.1GB	ULTRA ATA	$149.95
DR7253	ST33232A	3.2GB	ULTRA ATA	$179.95
DR7252	ST34342A	4.3GB	ULTRA ATA	$209.95
DR7335	ST36451A	6.4GB	ULTRA ATA	$269.95
DR8079	ST38641A	8.6GB	ULTRA ATA	$379.95

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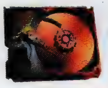

Item #	Model	Capacity	Price
DR7651	Fireball SE Ultra SCSI	2.1GB SCSI	$229.95
DR7649	Fireball SE Ultra SCSI	4.3GB SCSI	$299.95
DR7648	Fireball SE Ultra SCSI	6.4GB SCSI	$399.95
DR7647	Fireball SE Ultra SCSI	8.4GB SCSI	$499.95

Western Digital

Item #	Model	Capacity	Price
DR6103	W/D Enterprise	2.17GB	$369.95
DR6107	W/D Enterprise (Wide)	2.17GB	$399.95
DR6106	W/D Enterprise	4.36GB	$559.95
DR6110	W/D Enterprise (Wide)	4.36GB	$589.95

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Item #	Model	Capacity	Price
DR5641	Barracuda ST19171N	9.1GB	$789.95
DR5637	Barracuda ST19171W	9.1GB	$819.95

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Item #	Model	Capacity	Price
RDR4840	Jaz Internal Refurbished*	1.0GB	$199.95
RDRI1119	Jaz External Refurbished*	1.0GB	$199.95
DR4840	Jaz Internal	1.0GB	$279.95
DRI1119	Jaz External	1.0GB	$299.95
DR5279	Zip Insider	100MB	$149.95
DR4602	Zip Parallel Port	100MB	$139.95
DRI1050	Zip Parallel SCSI	100MB	$139.95

*Refurbished by the manufacturer to meet original factory specifications.

CD-R/CD-RW DRIVES

Hewlett-Packard SureStore

Item #	Model	Price
DR7994	CD Writer 2x2x6 Internal	$419.95
DR7995	CD Writer 2x2x6 External	$499.95

TAPE DRIVES

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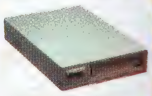

*Includes cartridge!

Item #	Model	Capacity	Price
DR4769	TapeStor 3200 Int.	3200MB	$179.95*
DR7692	TapeStor 8000 Int. SCSI	8GB	$379.95*
DR7693	TapeStor 8000 Int. IDE	8GB	$319.95*
DR5182	TapeStor 8000 Ext. SCSI	8GB	$449.95*
DR6550	Scorpion DAT Int.	8GB	$799.95
DR6551	Scorpion DAT Ext.	8GB	$899.95

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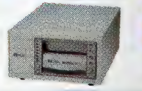

Item #	Model	Capacity	Price
DR7181	Colorado 5GB Int.	5GB	$229.95*
DR7180	Colorado 5GB Ext.	5GB	$269.95*
DR7315	SureStore Int. T4i	8GBTR4-/8	$389.95*
DR7696	SureStore DAT24e	24GB	$1549.95*

*Includes tape.

15" MONITORS

Item #	Model	Dot Pitch	Resolution	Price
MT1415	IBM G52 15"/13.6"	.28mm	1280X1024 85Hz	$299.95
MT1449	VIEW 15GA 15"/14"	.27mm	1280X1024@65 w/spkrs	$329.95
MT1724	SONY 100ES 15"/14"	.25AG	1024X768@85Hz	$329.95
MT1848	PUSER 15"/13.8"	.28mm	1024 X 768@70Hz	$199.95
MON0427	CTX 15"/13.8"	.28mm	1280X1024@66Hz	$249.95
MT1557	MAG DJ530 15"/13.9"	.28mm	1280X1024@65Hz	$269.95
MT1544	NEC A500 15"/13.8"	.28 mm	1280X1024@60Hz	$269.95

17" MONITORS

Item #	Model	Dot Pitch	Resolution	Price
MT1759	SONY 200ES 17"/16"	.25AG	1024X768@85Hz	$599.95
MON0458	MITSUBISHI 87TXM 17"/16"	.25AG	1600X1200@66Hz w/Mac adapt	$649.95
MT1546	NEC A700 17"/15.6"	.28mm	1280X1024@ 65Hz	$529.95
MT1514	PRINCETON 17"/15.8"	.28mm	1280X1024@76Hz	$389.95
MT1850	PUSER 17"/15.8"	.28mm	1280X1024@ 60Hz	$349.95
MT1651	VIEW EA771 17"/16"	.27mm	1280X1024@66 w/spkrs	$499.95
MT1545	NEC E700 17"/15.6"	.25mm	1600X1200@ 65Hz	$679.95
MON0612	SONY 200GS 17"/16"	.25AG	1280X1024@75HZ w/Mac adapt	$719.95

DIAMOND MULTIMEDIA VIDEO CARDS

Item #	Model	Price
EX7190	Speedstar 64 w/2MB	$99.95
EX7673	Monster 3D 3Dfx Voodoo Accelerator w/4MB	$199.95
EX8265	Viper V330 128-Bit w/4MB SGRAM	$199.95
EX8280	FireGL 1000 PRO 2D/3D w/8MB SGRAM	$249.95

MATROX MULTIMEDIA

Item #	Model	Price
EX8267	M3D Game Accelerator for PCI/AGP w/4MB	$99.95
EX8159	Mystique 220 w/2MB SGRAM	$109.95
EX8160	Mystique 220 w/4MB SGRAM	$129.95
EX7958	Mystique 220 Business w/2MB SGRAM	$99.95
EX7959	Mystique 220 Business w/4MB SGRAM	$129.95

DIGITAL CAMERAS

Item #	Model	Memory	Price
IN6192:	Canon Powershot 350 Digital Camera	2MB	$399.95
IN6084:	Canon Powershot 600 Digital Camera	1MB	$699.95
IN6936:	NEW! HP PhotoSmart C20 Digital Camera	4MB	$699.95
IN6895:	NEW! Kodak DC200 Digital Camera	4MB	$599.95
INP1132:	Kodak DC120 ZOOM Digital Camera	2MB	$699.95
IN6533:	Kodak DC210 2X Zoom Camera	4MB	$799.95
INP1303:	Olympus D-220L Digital Camera	2MB	$399.95
INP1304:	Olympus D-320L Digital Camera	2MB	$599.95
IN6659:	Olympus D-500L Digital Camera	2MB	$799.95
IN6660:	Olympus D-600L Digital Camera	4MB	$1299.95

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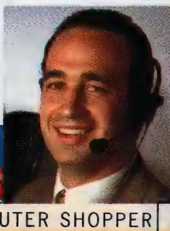

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BACKING UP THE LS-120

Dear Editor:

Aaron Goldberg's article, "Farewell to the Floppy" (March 1998 issue, p. 90), has hit a home run in its timeliness. I've been watching both the 120MB LS-120 and Iomega's Zip drives for a while now. I would like to see the industry embrace the LS-120. Why? That's easy—the LS-120 is compatible with older 3.5-inch floppies.

It seems to me that consumers jumped on a semi-high-capacity storage medium—the Zip drive—while failing to acknowledge the LS-120. The latter holds 20MB more and is backward-compatible, and it can be assigned as the boot drive on a system without requiring changes on the motherboard.

I use both an LS-120 and a Zip drive. I like the LS-120 much better simply because I don't have to chuck all my old floppies. I like not having to buy specially made Zip disk holders either, since I already have my old floppy ones. True, the LS-120 is more costly right now, but so was the Zip when it first came out. Iomega's newer Zip Plus drive costs a little more than the LS-120 does right now.

My bet is on the LS-120. I think that as the LS-120 starts to flood the market, more people will shift toward it and leave the Zip in the dust.

Brent S. Clark
via the Internet

QUEST FOR SYQUEST

Dear Editor:

I think Aaron Goldberg has done a disservice to readers by leaving out any mention of SyQuest removable drives in his column, "Farewell to the Floppy." I don't happen to own a removable drive such as the Zip, SyJet, or Jaz, but I read a lot of product reviews, and according to what I have read, the SyQuest drives are bigger and better than those in the Iomega line.

I get a lot of requests for advice on hardware from systems to removable media, and I always mention SyQuest products as my top choice for portable storage. The only thing Iomega has over SyQuest is a better marketing department.

George S. Phoenix III
via the Internet

POLICING THE NET

Dear Editor:

In Patrick Mitchell's article, "Industry Leaders Set Net Privacy Standards" (March 1998, p. 108), he states that companies are "determined to develop [their] own standards for protecting consumers online." Please. He is talking about an industry which puts unidentified pieces of retrievable data (cookies) on users' PCs.

Businesses will never succeed in convincing consumers that financial, personal, or marketing information will be safe on the Internet. Most of us can't even understand the technology used to deliver the goods, much less the technology used to process the transactions.

We have read too many examples of hackers being far ahead of the security experts, heard too many stories about information abuses, and suffered too many injuries and insults perpetrated by unscrupulous data hounds. It makes no difference whether the breed of hound is private, corporate, or government—an injury is an injury. Only a fool would trust the safety of the least-protected, least-regulated, and most unpoliced channel of commerce: the Internet.

Sara Chalfen
via the Internet

LIFE OUTSIDE OF WINDOWS

Dear Editor:

In John Dickinson's column, "Bill's Spoiled Child" (March 1998, p. 118), he writes that Windows 95 "handles multitasking better than any other PC-based operating system." Well, Windows NT runs on the same machines that Windows 95 does, and NT's multitasking is as good as or better than Win 95's.

More to the point, Linux also runs on the same hardware, especially on less powerful systems (say, 120MHz Pentiums and below), and is acknowledged by many to be better than both Win 95 and NT.

I don't want to sound like yet another fanatical Linux user, but I would like to remind journalists such as Dickinson of viable alternatives to Microsoft's operating systems. Competition is a good thing.

Benjamin Keen
via the Internet

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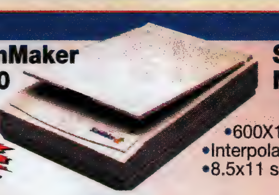

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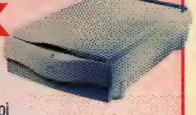

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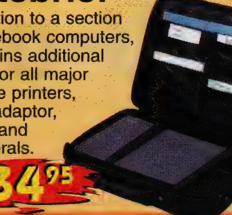

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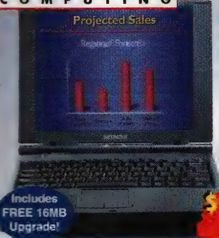

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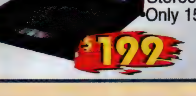

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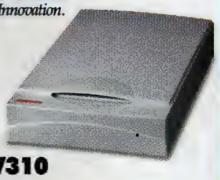

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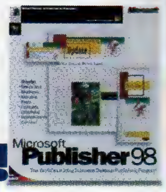

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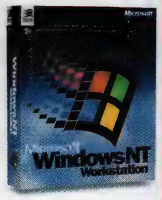

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trends and technology

Tech Support Centers to Merge Web With Voice

Teleweb Technology Puts Call Center, Online

Internet storefronts and online catalogs are serving direct vendors' customers while reducing the volume and length of calls to the companies' phone order lines. Now a new call-center technology called teleweb promises to extend the concept to more interactive inquiries, giving users faster, more accurate help over the Web. Analysts say, however, that teleweb's effectiveness will depend largely on how companies implement and staff the new service.

The concept is simple enough: You're browsing a company's Web site and come to a part where you could use a helping hand—perhaps in filling out a loan application, making a stock trade, or choosing between two laptop PC models. Clicking a teleweb icon alerts the company's call center.

Within moments, a service representative has phoned you to offer assistance, while a Java applet lets the rep's PC interact with yours, swapping HTML pages or help files. At present, this usually requires two phone lines, although vendors are working on single-line, voice-over-data implementations.

Teleweb interaction can be a boon for "[any] transaction that requires a high degree of trust and a high amount of visual information," says Robert Blatt, vice president of marketing of San Jose, Calif., vendor Aspect Technologies. Aspect's Web Agent product lets customers and company reps share screens, using their mice to circle information they want to highlight.

Companies poised to take early advantage of the technology, Blatt says, include financial services, travel, and health-care firms as well as computer sales and support operations. The growing roster of teleweb vendors ranges from telecommunications heavyweights such as AT&T, MCI, Nortel, and Lucent Technologies to startups such as Business Evolution, Silknet, Venturian Software, and WebLine Communications.

Teleweb interaction may radically alter the consumer view of the Web as an impersonal experience, predicts David Cooperstein, a telecommunications analyst with Forrester Research, which coined the term in early 1997.

"It's bringing the Internet to life,"

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Quantum Announces Ultra ATA/66 Hard Drive Interface

Doubles Data-Transfer Speed of ATA/33

Quantum Corp. has announced a hard drive technology that allows data to be moved to and from the drive at speeds up to 66MB/sec, or twice as fast as today's Ultra ATA/33-based drives. The announcement could lead to faster desktop applications for users and an end to the slump that has recently gripped the hard drive industry.

"We are trying to extend the life of ATA well into the year 2000," says Steve Wilkins, manager of product planning at Quantum, who adds the company will freely license its Ultra ATA/66 technology to other manufacturers once details are finalized. Quantum has already lined up an agreement with Intel to build support for Ultra ATA/66 into its chip sets and claims that systems supporting the new interface should be shipping by 1999.

According to Quantum, the new interface will also enhance data integrity with improved timing margins and the use of cyclical redundancy check (CRC) data verification. In addition, since Ultra ATA/66 uses an 80-conductor cable instead of the current 40-conductor cable, it will better resist electromagnetic interference.

Aside from the different cable, Ultra ATA/66 drive connectors will be backward-compatible with ATA/33 interfaces, though drives attached to such controllers will slow to 33MB/sec. Current PC owners will be able to upgrade via third-party Ultra ATA/66 PCI controllers and cables.

The introduction of Ultra ATA/66 comes at a critical time for the hard drive industry. Though hard drive capacities continue to grow, vendors have been unable to charge a premium for the huge drives, because the manufacturing process has remained largely unchanged, driving prices down to a point where profits are thin. Both Quantum and Seagate, for example, reported losses in the second quarter of the fiscal year.

Until IEEE 1394 FireWire drives become widely available, Wilkins says, Ultra ATA/66 represents the only significant hard drive improvement on the horizon. "This will allow us to push capacity and performance without hitting an interface bottleneck," he says.

—Dan Costa

trends and technology

BUYER'S ALERT

ITU Agrees on 56Kbps Standard

As expected following a compromise among rival modem makers last December, the International Telecommunications Union (ITU) has completed a draft outline of a 56Kbps modem standard. The standard, known as V.90, replaces and incorporates elements of both 3Com Corp.'s x2 and Lucent Technologies and Rockwell International's K56flex schemes.

All 56Kbps modems use a technique known as pulse code modulation to increase download speeds on phone networks equipped with a digital head end. Like the proprietary x2 and K56flex modems, V.90 modems face a real-world, FCC-mandated speed limit of 53Kbps; their download speeds on some phone lines and upload speeds on all lines are restricted to 33.6Kbps.

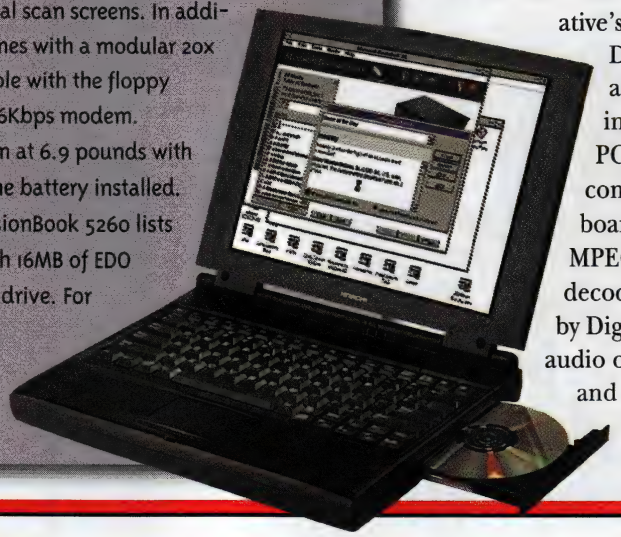
Though the ITU expects to ratify the standard in September, vendors such as Diamond Multimedia and 3Com are already shipping modems based on the published V.90 spec. Both companies say they will deliver their promised free software upgrades for owners of proprietary 56Kbps modems in the first quarter as well. ▼

Hitachi Launches SOHO Notebook

Hitachi PC Corp. has introduced a new, low-cost VisionBook Plus 5000 notebook line. Designed to compete in the small-to-midsize business and home market, the new series includes two models based on 166MHz and 233MHz MMX Pentiums.

Both feature 12.1-inch dual-scan LCDs based on Hitachi's High Performance Addressing technology, which the company claims delivers higher contrast and less ghosting than typical scan screens. In addition, each notebook comes with a modular 20x CD-ROM drive, swappable with the floppy drive, and an internal 56Kbps modem. Hitachi rates each system at 6.9 pounds with both the CD-ROM and the battery installed.

The entry-level VisionBook 5260 lists for $1,699 equipped with 16MB of EDO DRAM and a 2.1GB hard drive. For $2,299, the VisionBook 5280 packs 32MB of memory and a 3.2GB drive. ▼



DVD Upgrades Dip Below $300

Adding DVD to a PC is getting more and more affordable, thanks to recent announcements from Creative Labs and Diamond Multimedia Systems. The former has reduced the estimated price of its Encore Dxr2 DVD upgrade kit from $379 to $299, and Diamond has introduced a new upgrade kit, the MC20, also priced at $299.

Both kits include second-generation DVD drives that provide faster performance and compatibility with CD-R media. Creative's Encore Dxr2 kit also includes a PCI-based controller board with MPEG-2 decoding, Dolby Digital audio output, and advanced scaling and filtering hardware. Diamond's MC20 kit, which should ship in the second quarter of the year, includes a PCI card based on Chromatic Research's Mpact2 media processor. The latter shares the MPEG-2 decoding workload with your computer's CPU, and provides 2-D and 3-D graphics support so you don't need a separate graphics card. ▼

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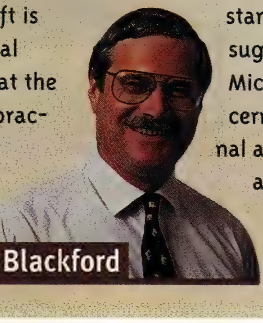
DIRECT FROM THE EDITOR

Toward Open Competition

Microsoft's Success Has Put It at Risk

Senator Orrin Hatch noted that having a monopoly is okay, but using it to restrain trade is not. The question before the Senate Judiciary Committee in recent hearings was whether Microsoft is abusing its operating-system monopoly to squash competition in other areas.

Bill Gates said no, that Microsoft is itself at risk from rapid technological change. There was no clear answer at the hearing, despite charges of unfair practices from Netscape's Jim Barksdale and Sun's Scott McNealy. One senator pointed out that Dell's phone sales reps would not provide Netscape Navigator to PC buyers. The reason, said one Dell rep, had "something" to do with Microsoft. Dell CEO Michael Dell denied any collusion, saying his firm enters into relationships with many companies to increase profits for shareholders. The unstated implication: Microsoft makes it worth Dell's while to downplay Navigator.



John Blackford

Interest in the hearing was clear, from the standing-room audience to TV interviews suggesting widespread concern about Microsoft's dominant position. This concern, and the hearings themselves, may signal a prelude to Department of Justice (DOJ) action against Microsoft. The DOJ may even initiate a broad antitrust suit for the purpose of breaking up Microsoft or establishing regulatory oversight.

Gates' testimony seemed to anticipate such an outcome when he suggested that the main threat to successful high-tech companies comes not from monopolistic practices, but from the prospect of government meddling by uncomprehending administrators. This perspective is reminiscent of Microsoft's recent claim that it couldn't comply with a court order to delink Internet Explorer from Windows without crippling the product—in effect claiming that the court's demands were nonsensical and based on ignorance of basic software design.

WHAT MONOPOLY?

It's understandable that Gates would see things that way. As I noted in an earlier column, government meddling is the one force capable of affecting Microsoft—whose operating-system leverage

(continued on page 112)

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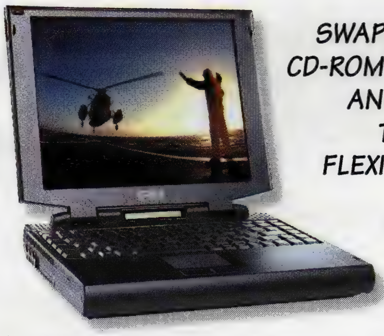

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Digital Audio Enables 'Internet Walkman'

New Wave of Audio Products Herald Portable Sonic Boom

A new breed of portable devices for storing audio files downloaded from the Web could change the market for everything from books on tape to the latest pop albums. The first such device to be sold commercially, Audible's Audible MobilePlayer, is a Walkman-size contraption with 4MB of RAM that can store up to two hours of spoken audio.

Bundled with headphones, a PC docking station, and a car cassette adapter, it sells for $199 from the company's Web site (*www.audible.com*). Another firm, Audio Highway (*www.audiohighway.com*), says it will ship its similar Listen Up player soon.

Since the sound is digital, it permits features not found on cassette players, such as instantaneous fast forward and rewind, and user-defined bookmarks.

"It addresses all the user inefficiencies of tape," says Don Katz, Audible's founder.

The company's library of audio titles, priced from $2.95 to $9.95, ranges from mystery novels to Harvard lectures, from T.S. Eliot and William Faulkner reading their own works to a reading of Dennis Rodman's *Bad as I Wanna Be.* Audible has also teamed with RealNetworks to offer subscribers a daily push-technology audio briefing on topics of their choice.

Files, once bought, can later be downloaded again free of charge by the same user.

"[It's] a way that you can get all the product you can get in the store, at lower prices [than tape], and all the product you can't get in the store because it happened yesterday," Katz says.

Russell Braun, RealNetworks' general manager for strategic products, anticipates businesses posting up-to-date executive briefings or training assignments on their intranets or Web sites, serving the estimated 40 million or so workers who are on the road at least 20 percent of the time.

Although employees can read such files using their browsers, Katz says, "There's going to be times of the day when you can't look at a screen." He predicts audio players will supplement portable PCs for such times, just as desktop computer users carried printouts in the days before there were portable PCs.

To ease the concerns of copyright-conscious content publishers, Audible watermarks its files so they can be played only by the buyer. As to whether the concept will extend from spoken audio to music, Braun and Katz say that's a logical next step, requiring only a continuation of today's plunge in memory prices so devices can accommodate larger compressed-music files.

"In another year, we should be there," Braun says.

RealNetworks is in discussions with Microsoft Corp. on incorporating sound functions into Windows CE, Braun notes, adding that CE 2.0 "has the lower-level functionality necessary to make it happen." That, he says, means audio could join e-mail, Web browsing, and cell-phone capability as an integral part of future handheld devices: "That is where the expansion of the market will be in coming years."

—Will Workman

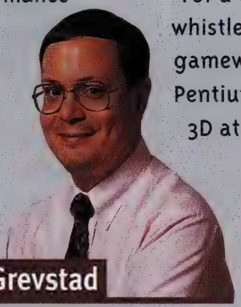
WORKING ON IT

Nice Round Numbers

Putting CPU Choices to the YNNI Test

These are exciting times in the computing industry. Unfortunately, exciting times in the PC business tend to be confusing times for PC buyers—and judging by the mail I get, perhaps the most confused are those hoping to get a little more longevity or performance than a bare-minimum desktop might offer.

As soon as they lift their eyes above the $999 horizon, they're dazzled by too many choices spaced too tightly together. Specifically, they see a market that'll soon offer no fewer than seven or eight CPU speed choices—and that's just counting the MMX Pentium and Pentium II families, not including their eminently respectable AMD, Cyrix, and IDT alternatives. Memo to Intel: That's not a product line, it's a salad bar.


Eric Grevstad

As Michael Slater writes in his column this month, the worst jumble is at the high end, with Intel's 333MHz Pentium II barely weeks old, but higher-bus-speed 350MHz and 400MHz flavors already knocking on the door. The low end's no sparser, either, with the cheap, cacheless Pentium II variant code-named Red Herring—sorry, Covington—due soon.

Well, fear not, muddled customers. Working with experts at *Computer Shopper*'s Breezy Generalizations Lab, I've narrowed the choices for your next desktop processor down to three, using an easy-to-remember formula: 200, 300, 400.

Simple, eh? For a LAN client for business applications, a penny-pinching entry-level system, or a second or third PC for the home, a 200MHz MMX Pentium or equivalent will let you hold your head reasonably high, while saving enough money to make sure you get at least 32MB of RAM, a 4GB graphics card, and a 17-inch monitor.

For a terrific under-$2,000 system with bells and whistles such as a 4GB or larger hard drive and gameworthy AGP graphics, consider a 300MHz Pentium II (or before long, perhaps, an AMD K6-3D at the same clock speed).

And if you've got to have bragging rights to a high-testosterone chip set, the fastest bus architecture, or professional graphics- or video-editing capability—the works—then skip the in-between steps. Plan to splurge on a 400MHz Pentium II...with the word "splurge," of course, nowadays still leaving you on the happy side of the $3,000 line.

PCS FOR PAPA, MAMA, AND BABY BEAR

The calculations behind these declarations aren't rocket science (more like dart science, as in throwing). When it comes to differences in computing horsepower, I'm less concerned with hair-splitting benchmarks than with the results you can expect in everyday work.

I like to call this the YNNI theory. The latter is not named after John Tesh's dark twin from the PBS concerts, but is an acronym for "You'll Never Notice It."

For example: Why do I endorse the 300MHz Pen-

(continued on page 112)

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Flat Is Beautiful

As Prices Fall, Shoppers Take A Closer Look at LCD Monitors

Their space-saving style has been turning heads for several years, but their high costs have kept flat-panel LCD monitors off most desktops. But now, as manufacturing volumes and efficiencies increase—and as falling computer prices leave buyers more money to spend on deluxe monitors—vendors are striving to bring slim displays into the mainstream.

Like notebook PC screens, most flat-panel monitors use active-matrix (also called thin-film transistor) technology to display images. Because LCDs use backlit liquid crystals to form images on a set matrix of pixels, LCDs often feature sharper images, and with recent models, they feature even greater luminescence than their CRT counterparts.

Although their viewing angle tends to be narrower, LCDs don't suffer from the flicker inherent in having to redraw a screen image as CRTs do. As a result, it's easier to view an LCD panel for longer periods of time. What's more, LCD technology allows smaller form factors and cause less electromagnetic interference, all reasons for the popularity of flat-panel displays in banks and brokerage offices.

"In a single room, you can have hundreds of different people all doing multimillion dollar deals, and they need to have a ton of information in front of them," explains Alan Petersburg, worldwide brand manager for visual products at IBM. "So if by saving on the space of CRTs, you can get a few more traders into the same space, generating millions of dollars in profit per person, you can easily justify $4,000, $5,000, [or] even $20,000 per monitor."

But for corporate and consumer markets without such special requirements, the main issue is price. Market analysts have estimated that widespread consumer interest won't catch fire until an LCD monitor costs no more than one and a half times as much as a comparable-size CRT.

For now, though 13.8-inch units such as Sharp Electronics' CE-LT14M and ViewSonic Corp.'s VPA138 have broken the $2,000 barrier, most LCDs still sell for $1,600 or more—a price delta, analysts say, that's simply too large and keeps most business or home users buying 15- or 17-inch CRTs.

"The issue of whether it's two times [the price] of a 17-inch CRT is neither here nor there. The question is whether you can afford it," says Martin Reynolds, an analyst with Dataquest in San Jose, Calif.

However, OEMs and resellers are both working to drive down the price of LCD monitors in an effort to court the mainstream desktop market.

"They've come down a bit [because] they've had to," says International Data Corp. analyst Ed Buckingham. "There's an early-adopter market where these things are paying off beyond price point, like the financial markets where space is an issue, but that fruit has been picked."

In the direct channel, where price fluctuations are often easier to control, a few vendors such as Akia Computer Corp. and Comtrade Computer already offer desktop configurations with LCD monitors. Among top-tier players, Dell Computer Corp. offers a 14.1-inch flat panel as a $1,210 upgrade from its 17-inch Trinitron monitor, and Gateway 2000 and Micron Electronics both expect to board the LCD bandwagon later this year.

PHOTOGRAPH BY CHRIS GOULD

"We've identified a supplier and display, and it's just a matter of timing and getting the things in here," says Jeff Moeser, desktop product manager at Micron. "The way this is going to work is that it'll be starting at the high end and working its way down. If someone is going to be spending X amount of dollars on a 21- or 24-inch tube, the uplift to go to, say, a 21-inch flat panel isn't that much."

For its part, Gateway 2000 is mulling over an LCD-related technical issue: whether to go with a completely digital solution or the analog-to-digital connection used by the majority of today's products.

"It appears that the straight digital is going to be better economically, and the quality is a little better," says Chad Benson, a senior marketing manager at Gateway.

Most LCD panels are digital devices; indeed, earlier models worked with only proprietary digital graphics cards. To work with the analog signals of PC graphics accelerators, most LCD monitors—except for those of NEC Technologies, which says its MultiSync LCD400V uses analog signals throughout—incorporate an analog-to-digital converter, though manufacturers admit such a converter can increase cost and slightly degrade image quality. Sharp, for instance, offers 13.8-inch and 15-inch analog-to-digital LCD monitors.

"We've put an analog-to-digital converter in the monitor to make it plug-and-play so it works with any desktop," says Howard Shoobe, senior product manager for Sharp USA's computer products division. "But from the manufacturer's perspective, it's another connector, which adds cost and increases complexity."

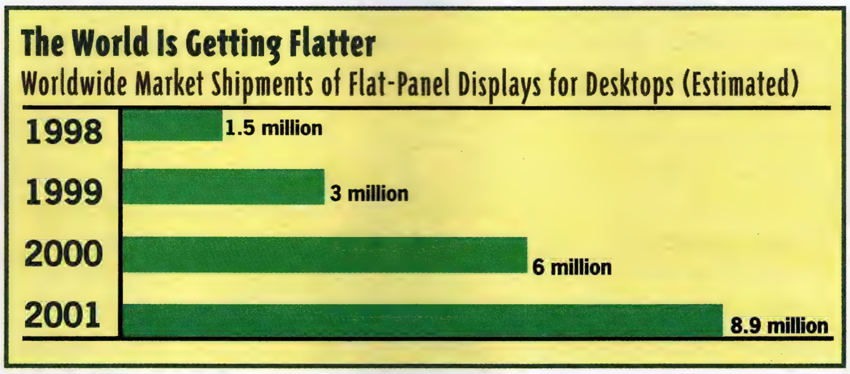
Although the ubiquity of the analog VGA port dictates market strategy, a straight digital solution will yield the best possible display, agrees James Chan, product manager of flat-panel displays at ViewSonic.

"Because the technology is intended to be digital, you can drive a better resolution by using digital drivers throughout," Chan says.

The Video Electronics Standards Association has proposed a digital interface standard called PanelLink, but desktop vendors are reluctant to incorporate the technology because of cost and compatibility issues.

"It would help push [digital monitors] along," Shoobe says, "but there has to be a demonstrated [market] need on the monitor side for desktop manufacturers to use a digital interface."

And even with an all-digital interface, some graphics professionals may find LCD monitors lacking. Despite being technologically superior in almost every other way, flat-panel displays are ill-suited for high-end color-matching.


The World Is Getting Flatter

Worldwide Market Shipments of Flat-Panel Displays for Desktops (Estimated)

(Source: IDC)

"The technology to manage color on a panel is still in its nascent form," says Scott Brodrick, product line manager for displays at Apple Computer. Though Apple's 15-inch, 1,024x768-pixel LCD monitor offers extras such as NTSC/PAL video input, Brodrick admits, "it doesn't eliminate [publishers'] need for a proofing CRT display."

Chan agrees, noting, "Although LCDs can technically simulate 16.7 million colors, the real number of colors is around 256,000 or a little above that. CRTs are still the best choice if you want to do color calibration and a lot of graphics publishing."

IBM's Petersburg, however, argues that most consumers can't distinguish the technologies' color palettes.

"You have a 16.7-million-color spectrum in there, and I suppose that on analog you can get more than that, but my eyes are only good enough to tell a couple of hundred colors, let alone 16 million," he says.

Though the industry expects a steady surge in popularity for LCD monitors, no vendor expects the CRT to disappear overnight.

"I would be surprised to see a quality sub-$1,000, 14-inch [LCD] by the end of this year," says Chris Connery, a product manager for LCD monitors with NEC. "CRT technology is not going away any time soon."

Still, vendors agree that they expect to see a growing number of 14-inch, 15-inch, and larger flat panels on the market by the end of this year, perhaps hitting the magical $1,000 price point in 1999.

—Keith Kirkpatrick

GAS PLASMA POISED FOR BIG-PICTURE DEBUT

Huge Panels Planned For Living-Room PCs

Though LCD screens are ideal for notebook and desktop PCs, they are notoriously difficult to scale up to diagonal sizes larger than 21 inches. That's why gas-plasma flat-panel displays are poised to become the dominant choice for products such as corporate presentation monitors and living-room PC/TV systems.

A pixel in a plasma display functions like a fluorescent lamp. Electrically charged plasma gas emits ultraviolet light, which then strikes and excites phosphors on the panel that emit visible light.

Fujitsu's 42-inch Plasmavision panel is one of the first jumbo gas-plasma displays to be made available. With a list price of about $14,000, it's not cheap, but analysts expect such prices to descend as plasma technology matures and high-definition television becomes the norm.

"You're going to see plasma more in entertainment [applications] than in computers," predicts Martin Reynolds, an analyst with Dataquest in San Jose, Calif. "Plasma panels can exceed the 20-inch size with relative ease, and they can have relatively large pixels."

Big pixels imply low resolution, but that is not a drawback for home-theater products, because users will likely be sitting relatively far from the screen and will neither want nor need desktop-publishing-style fine focus.

"There's no point in having a 40-inch, 1,600x1,200 TV display," Reynolds says. "You only need 640x480 or 800x600."

Other analysts agree, noting that gas plasma's display quality is as good as or better than the typical projection TV displays often used in large home-theater applications or corporate settings.

"Plasma screens are going to be big in the consumer-television market and the large-display market," says Ed Buckingham, an analyst with Framingham, Mass.-based International Data Corp. "Their prices are still very high, but they will definitely be coming down."

However, Buckingham says, you shouldn't expect to see plasma displays on your desktop, because the technology is pricey and doesn't scale down very well: "It's kind of like the difference between a computer monitor and a television."

For Gateway Destination-style systems, though, Fujitsu will be only one of several OEMs eager to claim space on consumers' living-room walls. Matsushita, Mitsubishi, NEC, and Pioneer have all demonstrated 40-inch or larger color panels at trade shows and press briefings. ▼

Digital Camera, Film Vendors Battle Over Storage Formats

CIFF and EXIF Square Off

In an attempt to create a framework that will let digital images flow freely between digital cameras, storage media, and computers, a group of camera manufacturers have touched off a standard battle that may create consumer headaches.

Twenty camera manufacturers, led by Canon and including Nikon, Olympus, and Pentax, have proposed a new standard—Camera Image File Format (CIFF)—for storing digital still images. The CIFF backers hope to make their JPEG-based format and removable memory cards as interoperable between different brands of cameras as 35mm film cartridges are today.

However, the new standard is incompatible with the Exchangeable Image File (EXIF) standard backed by the major film manufacturers Kodak and Fuji. The specter of a standard clash could slow the growth of the digital camera market, which Dataquest predicts will soar from 1 million unit sales in the U.S. this year to 8 million in 2001.

On the other hand, a possible CIFF/EXIF conflict could be hardly noticeable to consumers "because so many cameras [today] are using a proprietary format," says Van Baker, Dataquest's director of consumer research.

"If you try now to interchange with someone else's format, you're going to have a problem anyway," Baker says, "so the impact [of CIFF vs. EXIF] on the consumer is minimal at this point."

Nevertheless, industry observers agree that camera makers and film vendors should come to terms. At stake is the free flow of images from cameras to computers to printers, or even to Kodak's planned public kiosks where digital images can be printed.

"It doesn't make any difference to us," says Brandon Telleich of SanDisk Corp., a manufacturer of CompactFlash memory cards used for digital image storage. "But if [vendors] can come to a standardized format for storing images, it would make the world a whole lot easier."

Canon and its CIFF partners shouldn't expect an easy victory over EXIF, Baker cautions. "This is not a numbers game, this is a clout-in-the-marketplace game, and you can argue that Kodak and Fuji have more clout than the others combined," he says. "But there's every evidence that we're going to see standardization win out." ***—Will Workman***

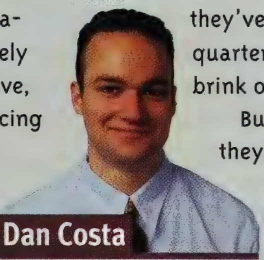
DIRECT CURRENTS

Think Different (No, Seriously)

Direct PC Vendors Could Learn from Apple's Strategy

It may seem odd—OK, crazy—for a columnist these days to hold up Apple Computer as a role model, but the company makes an interesting case study for those of us that follow the direct computer industry.

Over the past year, Apple has embraced many aspects of the direct model and substantially increased the effectiveness of its operations. If Apple survives, it will be largely because of this new efficiency. To thrive, however, Apple must succeed in servicing its niche markets. And that's a lesson from which PC vendors could learn.



Dan Costa

First, let's look at what Apple obviously learned from mail-order PC vendors. The company has pulled out of every national retail outlet except for CompUSA and launched an aggressive direct sales campaign, slashing its costs by slashing the number of middlemen.

Apple has also moved to a build-to-order manufacturing process and pruned its product offerings. Rather than offering a limited assortment of preconfigured systems from retailers, the company now offers one line of desktops, in an unlimited number of configurations, directly. This protects Apple from the forecasting problems that have plagued it in the past.

Moving to the leading edge of electronic commerce, the firm launched an online Apple Store that reached $12 million in sales in the first month it was active. Granted, that's meager compared to Dell's $4-million-daily Web storefront, but most PC vendors would be happy with those apples.

Though these operational improvements haven't done much for the Mac's market share, they've given the company its first profitable quarter in over a year and saved it from the brink of industry irrelevance.

But as important as these moves are, they leave Apple with a very big problem—one the rest of the industry faces as well. Nearly every computer company is making the same improvements in its business model, resulting in a relative improvement for no one.

Whether it's called build-to-order, channel assembly, just-in-time manufacturing, or some other management buzzword, all PC vendors are imitating the direct model. Although this is great for consumers, it's likely to erode the advantage many traditional direct vendors have long enjoyed.

THINK STRATEGIC POSITIONING

There's another option open, and Apple knows it. Right now, PC manufacturers create their marketing plans based primarily on sets of price points. As operational effectiveness becomes less of a way to distinguish vendors, they must find new ways to differentiate themselves. One is to position their products for specific market niches.

This is exactly what Apple is doing by targeting its core markets of content creation and education. Apple's woes have forced its share of the K-12 educational market to slide to only 26 percent in 1997, but even this is more than double that of any other brand. And the company is aggressively seeking to regain ground with low-priced classroom systems, stepped-up sales efforts, and low-cost ancillary services like the Apple Learning Interchange, an online resource that enables educators to share curricula, multimedia files, and other materials.

There are plenty of other niches—or, if vendors don't like that term, market segments—to be filled. Falcon Northwest configures desktops with cutting-edge 3-D and sound cards for rabid gamers. Gateway 2000 courts parents with a curriculum-based, 47-disc library of educational software.

No one wants to be known as "just a niche player." Still, it's important to understand that sales volume doesn't always make satisfied customers—or profitable companies. Targeting smaller market segments with customized products makes a lot of sense. And considering that Dell, Compaq, IBM, and Hewlett-Packard control 70 percent of the worldwide PC market, thinking a little differently could be the only competitive advantage left. ▼

OS Vendors Vie For Smart-Phone Market

New Cell Phones Sport PDA Features

Now that manufacturers including Ericsson, Mitsubishi, and Nokia have launched smart phones in the U.S. market, operating-system software developers are racing to stake their claims to this emerging handheld computing platform.

Smart phones combine personal-organizer, note-taking, e-mail, fax, and even Web-browsing capabilities with wireless voice communication. According to the Palo Alto, Calif., market-research firm Killen & Associates, the market for these kinds of wireless Internet services will rise from $1.3 billion in 1998 to $19.2 billion in 2002.

Currently, 3Com Corp. is licensing the OS of its popular PalmPilot PDA to Qualcomm, a pioneer in Code Division Multiple Access (CDMA) cellular telephony. Qualcomm says it plans to build components of the Palm OS into upcoming versions of its digital cell phones.

Microsoft Corp. is also eager for smart-phone success. Samsung Electronics has announced two Windows CE-based cell phones, one using traditional analog cellular and another designed for newer PCS networks. European electronics heavyweight Siemens AG has also announced plans to build CE-based cell phones.

However, both Microsoft and 3Com are playing catch-up to Geoworks, whose GEOS powers the Nokia 9000i Communicator.

Geoworks has recently launched GEOS-SC, a version of its operating system designed specifically for smart phones. GEOS-SC runs in as little as 50K of RAM and 256K of ROM, and requires even less CPU power than the GEOS version found in the 386-based Nokia.

International Data Corp. analyst Diana Hwang says vendors are looking for a modular OS that will permit customized phone offerings, since the interface will be the primary means for differentiating these products.

Even telecommunications giant Lucent Technologies wants to play in the smart-phone arena, with its Inferno network operating system (NOS). The company positions Inferno as an end-to-end secure network device solution that is portable and programmable.

And if a NOS seems like overkill for a cell phone, consider the latest moves by Lotus Development Corp. The company has already scaled access to Lotus Notes e-mail down to the PalmPilot, and is currently beta-testing a server designed to support access from cell phones and pagers.

—Dan Costa

THE SILICON SCENE

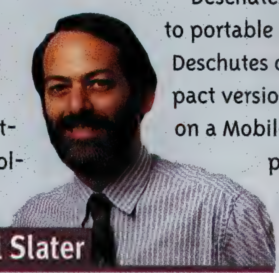
Pentium II Proliferates

Intel Boosts Bus Speed

In January, Intel announced the 333MHz Pentium II processor. At first glance, this isn't a very exciting step: The new CPU's clock speed is only 11 percent higher than its 300MHz predecessor's, so its performance boost will be small. It uses the same 66MHz bus that has determined Intel's top bus speed for years. Despite its modest appearance, however, the core of the 333MHz Pentium II will be the basis of Intel's entire product line by fall.

All Pentium IIs look the same on the outside, but the 333MHz module is different inside—it is the first to use the 0.25-micron version of the CPU, code-named Deschutes. The more advanced semiconductor technology makes Deschutes both faster and more power-thrifty than the 0.35-micron version.

At first, Deschutes will be strictly a high-end chip, and Intel will collect high prices for it (at introduction, $722 in 1,000-unit quantities). Its manufacturing cost is actually lower than the slower versions', however, because the 0.25-micron chip is much smaller.


Michael Slater

For low-end systems, Intel plans to offer a Pentium II module that has no Level 2 cache; the module has only one chip, the CPU, in it. This product is code-named Covington. Eliminating the L2 cache will cut performance dramatically, making the bargain chip slower than a high-end MMX Pentium on typical business applications, though potentially faster on multimedia and 3-D games.

For computer buyers, there will be little if any advantage in Covington-based systems compared with MMX Pentium, AMD K6, Cyrix 6x86MX, and IDT WinChip designs. The real reason for Covington is that it will enable PC makers to build all their desktops with Intel's Slot 1 design, dropping all Socket 7 (Pentium interface) motherboards.

Mendocino, a low-cost processor that combines the Deschutes CPU with an on-chip L2 cache of 128K or 256K, will be much more attractive. As with Covington, there will be only one chip in the module, but performance will be much better. It won't appear until later in the year, however.

For higher-end systems, Pentium II modules will continue to contain separate SRAM chips for the L2 cache. The current Pentium II's Slot 1 design will continue for midrange and high-end PCs, with a new Slot 2 design for high-end workstations and servers. The Slot 2 processors will have large, fast caches, but will be very expensive.

Meanwhile, Intel is switching to a 100MHz system bus speed for its future Pentium IIs. Starting at 350MHz, clock speeds will go up in 50MHz chunks, instead of the 33MHz intervals that have ruled the industry for years. The company promises to have 400MHz processors by summer and 450MHz chips by year's end. The increased bus speed will help performance increases keep pace as CPU core speed climbs.

Deschutes will also bring the P6 family to portable computers. Intel will offer Deschutes on a "minicartridge," a compact version of the Slot 1 module, and on a Mobile Module that is fully compatible with today's Pentium-based modules. This will let notebook makers quickly upgrade existing designs based on the Mobile Module, though there are no plans to offer field upgrades to users.

This explosion of Pentium II processors is going to make life more difficult for Intel's competitors. To the degree that Intel can convince PC makers and users to abandon Socket 7, it will lock out the competing processor suppliers. On the other hand, the transition from Socket 7 to Slot 1 won't happen instantly, and Intel's abandonment of the older design gives its competitors an opportunity to rule that market segment for whatever remains of its life. Despite the rise of Pentium II, there will be tens of millions of Socket 7 processors shipped in 1998.

The days of premium prices for such processors are over, however—Intel's 233MHz MMX Pentium is selling for less than $200, while AMD, Cyrix, and IDT are pricing their CPUs under $150. Such low prices make systems based on these chips good values for PC buyers, and Intel will have to share a relatively large part of the entry-level PC market with its competitors.

For high-end systems, Intel clearly will be the only CPU supplier, at least in 1998. The opportunity for alternative processor vendors to make money this year is to reach up further into the midrange, and it remains to be seen whether they can achieve this. ▼

SECTION CONTINUES ON PAGE 110

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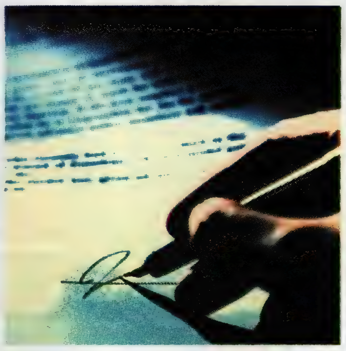

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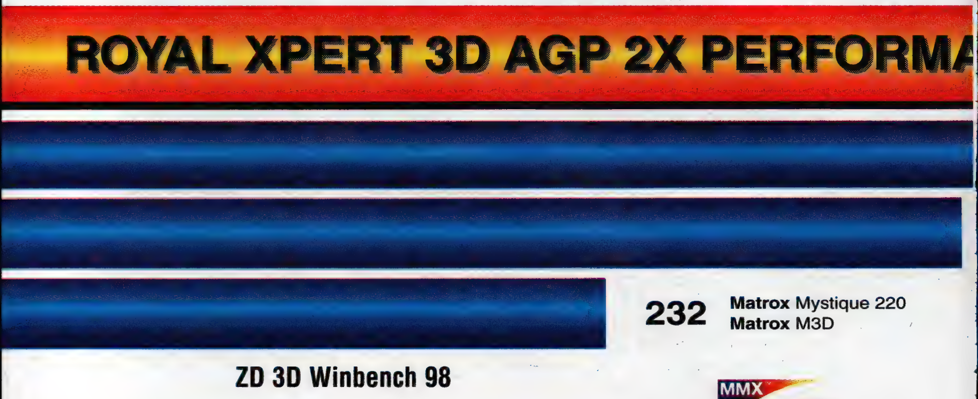

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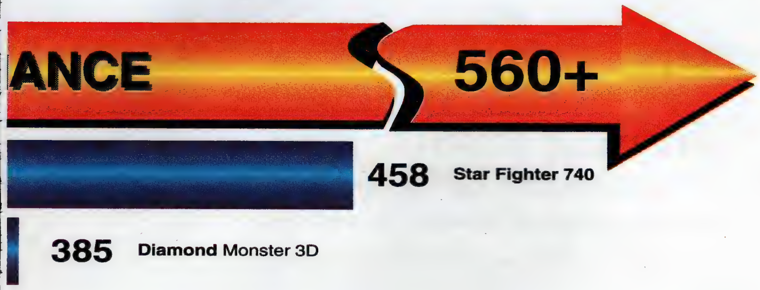

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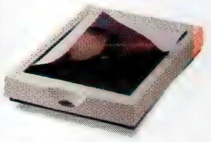

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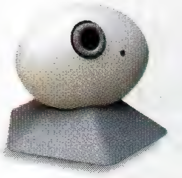

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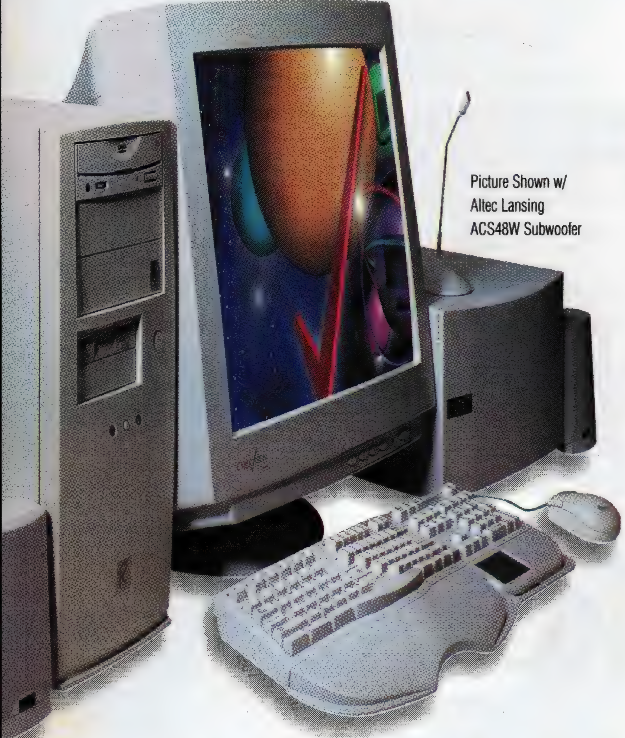

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trends and technology

Entertainment Web Site Learns Users' Likes, Dislikes

AT&T Signs Up for 'Neural-Agent' Personalization

AT&T's latest perk for subscribers to its WorldNet Internet access service is more than just another list of hotlinks. Since March, WorldNet members have had access to eGenie, an arts and entertainment site that uses what its operator, Open Sesame, calls neural-agent technology to personalize the content each visitor sees according to his or her tastes in books, music, TV, and movies.

Open Sesame is a division of the Cambridge, Mass., firm Charles River Analytics, which developed the technology, dubbed Learn Sesame. Whether on the Web or in a corporate enterprise, the company says, personalization technology can help firms locate relevant customer information without complex search queries or manually sifting through lots of data.

"By incorporating neural agents into Web services, personalization makes searches more effective, as documents can be retrieved that best match an individual's interest profile," says Russel Rothstein, Open Sesame director of marketing and operations.

"Any company can [put] neural technology into its Web services," Rothstein claims. "Online publishers can use Open Sesame to deliver personalized stories to their customers, suggesting [new articles] based on the ones they've read in the past. This knowledge helps build customer loyalty, increase repeat visits to Web sites, and generate longer visit times."

On eGenie, users are alerted to new books, CDs, concerts, art events, television programs, and movies that suit their tastes via partnerships with Atlantic Records, Borders Books, MovieFone, N2K Music Boulevard, Random House, and Sony.

The free service, located at *egenie.opensesame.com*, plans to add health, business, and travel information over the course of the year.

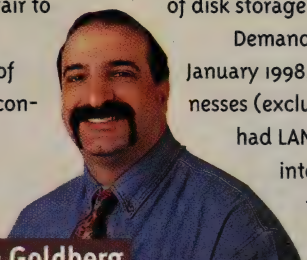
—Jon Halpin

DIRECTLY SPEAKING

MICROSOFT'S OS PLANS MISS SMALL BUSINESS

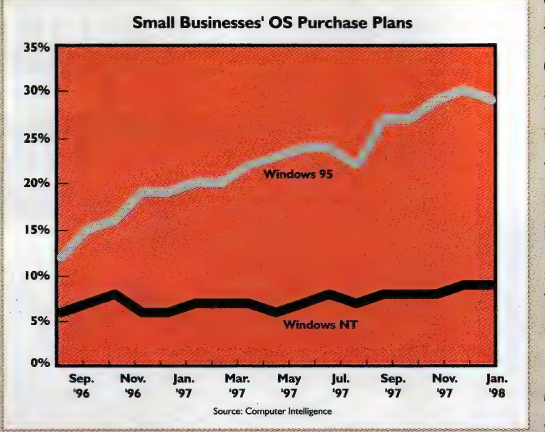
NEEDED: SOMETHING BETWEEN WINDOWS 98 AND NT

With Windows 98 nearing release and Windows NT 5.0's feature set well-established, the products that make up Microsoft's short-term operating-system strategy are upon us. It's fair to say that NT 5.0 looks really strong, and Windows 98 seems a promising merger of the Web and the PC. However, there's a constituency that has been left out of Microsoft's OS scenario: the bulk of the small-business market.



Aaron Goldberg

It's no secret that small businesses, defined by Computer Intelligence (CI) as firms with fewer than 100 employees, have been a driving force behind the success of many vendors as well as big creators of jobs for the U.S. economy. But while small companies continue to adopt new technology at a rapid pace, the computing issues they face are not the same ones faced by consumers, or by larger firms rich in IT resources.


Small Businesses' OS Purchase Plans

Source: Computer Intelligence

At the risk of generalizing about the myriad small-business market segments, Windows NT is often too much OS for them. And though Win 98's improved DVD, MMX, and Internet support is nice, it's hardly at the top of small offices' wish lists.

According to the CI databases, few of the small businesses we survey plan to purchase Windows NT; many more are interested in Win 95, even as Win 98 approaches. In terms of NT-ready platforms, about three-quarters of the installed PCs in this sector have 16MB of memory or less; 46 percent have less than 1GB of disk storage.

Demand for NT's networking power? As of January 1998, fewer than 15 percent of small businesses (excluding government and education) had LANs. Impatience for Win 98's Internet integration? Only about 40 percent use the Internet at any level, mostly just for surfing and e-mail.

OVERLOOKING THE OBVIOUS

Taking these truths to their logical conclusions, Microsoft is missing a lot of customers. About 25 percent of small firms have both the demand and the IT support structure (i.e., an in-house computing manager) to make a migration to NT successful. At the other extreme, around 30 percent are such undemanding users that they can safely be lumped in with the home-user crowd.

That leaves 45 percent of the market unserved!

Why hasn't Microsoft addressed some of the issues that matter to these users? Failure recovery is one that comes to mind. (Ever try to recover from a registry configuration error without a network? It's ugly. Really ugly.) Another is simple networking or file sharing, including user-friendly security and consistent file management across mixed Windows platforms—a common scenario in small businesses.

Everything about Windows' usability and configurability can stand improvement. CI's data shows many smaller businesses don't add functionality to existing PCs, primarily because of the problems that arise when they upgrade Windows systems.

Too often, unexpected conflicts and device errors leave them worse off than before the upgrade. Small businesses don't have the in-house expertise to deal with this, and Redmond's tech-support lines have long ceased to solve such issues.

I'm not arguing that better Internet integration isn't valuable, or that Microsoft has missed the boat completely. But there are far too many general improvements and too few specific benefits for small businesses in both NT 5.0 and Windows 98.

So am I joining the Microsoft-bashers yelling for Linux or BeOS or whatever? Well, while Microsoft has left a huge market segment unserved, none of the current alternatives has what it takes to meet the need, either. Even the Macintosh, a well-supported and robust platform, obliges a small business either to buy all-new hardware or deal with a mixed environment. Neither is optimal.

This means small businesses are heading for a period of computing stagnation. This segment is a gaping strategic hole for Microsoft to fill; eventually, I'd look for the company to announce some version of Windows that is better suited to small business.

It won't happen immediately, but an installed market of somewhere near 20 million PCs should get enough attention to ensure action at some point. And while it'd be nice to predict that someone else will see this opportunity, beat Microsoft to it, and end its dominance in PC operating systems, rational thought has to discount that scenario. ▼

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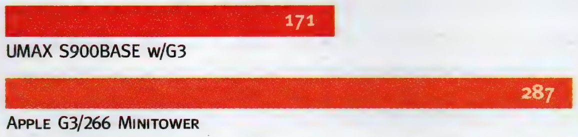

Both computers were loaded with their maximum RAM. Score is time in seconds to complete three Photoshop 4.0 tasks with a 188MB RGB image. Measured tasks were 0.5 gaussian blur, mode change to CMYK, and resize image to 50%. See web for details.

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TECH SUPPORT CENTERS MERGE WEB, VOICE

(continued from page 89)

Cooperstein says. “The goal is to personalize the Web.”

Forms of teleweb can vary greatly from product to product. Cooperstein takes a dim view of early efforts by AT&T and MCI, which he says merely push Web pages based on customer's help requests. However, he expects more sophisticated offerings and single-line, Internet telephony-enabled products to do a superior job of connecting customers and agents.

In the worst case, though, teleweb could be no more effective than a button on a Web site that lets visitors send e-mail feedback—half of which, some surveys say, goes unanswered.

“Businesses are finding they don't have the capacity to handle it,” Blatt says, adding that corporate call centers must adopt an integrated strategy for handling all types of information requests.

Sheila McGee-Smith, director of call-center services with the New Jersey-based consulting firm the Pelorus Group, says the flow of calls will only get worse.

“We're going to see a substantial amount of traffic moving to the Internet,” she warns, adding that large firms' call centers could soon be getting anywhere from 5 to 10 percent of their requests via the Web.

“The goal is to personalize the Web.”

McGee-Smith also says, “I think people might be leery about [teleweb as an invasion of privacy]. Think about it—it's letting someone have access into your computer.” Aspect's Web Agent, for instance, can “watch” what a visitor does on a site and deliver help screens based on perceived needs.

According to Blatt, however, any company that doesn't handle the privacy angle wisely will simply drive customers away. The bottom line, he says, is that “if you don't use the Web as a medium to personalize the experience of someone going online, then you're missing a big opportunity.”

Cooperstein adds that teleweb's biggest boost will come as more consumers get high-bandwidth cable and DSL modems: “Then teleweb really takes off, because not only are agents more easily accessible, but you may actually find you'd rather contact them via the Web than by phone.”

—Will Workman

JOHN BLACKFORD

(continued from page 90)

lets it determine outcomes in so many areas.

Hearing witness Stuart Alsop may have best captured the company's state of mind by suggesting that Microsoft perennially sees itself as the underdog. Going forward, Alsop said, Microsoft might do well to recognize and adapt to the reality of its dominance.

Today, though, Microsoft responds to limits on its control of core business areas as threats to be destroyed. Need to control, more than financial or even technological concerns, is the operating principle.

Case in point: Microsoft recently announced a new version of Visual J++, called VJava 98, which includes many Windows-specific extensions to Java. Programs that take advantage of the extensions may not run properly on non-Windows systems. There are many reasons for Microsoft's approach, but among them must be that the move undercuts the “write once, run anywhere” goal that's been fundamental to Java.

Does any company have the right to destroy cooperative standards, just because it can?

Speculating about the future is a low-percentage game, but it's nonetheless worthwhile to consider desirable outcomes. Intrusive government regulation of the sort cited by Gates is unlikely, in part because there is recognition within the DOJ of the danger of undercutting high-tech innovators.

For fear of crippling the industry, the DOJ is unlikely to seek a true breakup of Microsoft. Instead, it might recommend that the operating-system group be spun off or turned into a regulated department within Microsoft.

But the difficult fact is that the operating system should continue to evolve, possibly even embracing such elements as Internet browsers. How, then, to protect fair competition without stifling innovation?

A modest proposal: Set up a committee (preferably a judge with good technical advisors) to oversee Microsoft's business practices. Microsoft would be free to innovate and compete, but within guidelines set by the judge. The committee's authority would extend to areas Microsoft could control as a direct result of its operating-system monopoly.

In the case of Java, the judge might rule that Microsoft could not fragment the Java standard—but could certainly compete by producing a better Java. The idea of needing approval to innovate is unappealing. However, I believe such oversight, if carried out with a deft hand, may be in the long-term interests of the industry and its customers. ▼

ERIC GREVSTAD

(continued from page 92)

tium II when tempting 333MHz machines cost only a wee bit more? Because of the split-the-difference test previously mentioned in this space: Take the percentage boost gained by choosing the higher clock speed (in this case, one-ninth or 11 percent) and cut it in half for a rough estimate of the real-world-application improvement: 5.5 percent, or well into YNNI territory.

The trick to picking among too many levels of computing power is to find noticeable advantages at bearable price premiums. That's why, as much as I'm a fan of anything with a fire-sale price tag—from last year's PDAs to sub-$1,000 desktops that don't fob you off with 16MB of RAM—I think it's the middle of my three setups that'll hit the sweet spot for most buyers.

Differences under 100MHz don't count.

As for the one above it, there'll certainly be people who can't resist having this week's latest and greatest, just as there are 15 or 20 women in the world who can actually wear the outfits in *Sports Illustrated*'s swimsuit issue, or the same number of gamers who'll take Diamond Multimedia's advice to install not only a $250 dedicated Monster 3D II accelerator but two of them, for Quaking at 1,024x768.

But for the rest of us...longing for more than a 300MHz Pentium II, when there's no software that causes the chip to break a sweat, and a year ago we were paying twice as much for a 200MHz MMX Pentium? What are we, nuts?

I still think Intel's frantic pitch that you need a 400MHz processor for software-based DVD, as an alternative to a cheaper CPU plus a $50 hardware decoder, is the second-funniest thing the company's ever said. (The first, from a marketing guy telling editors at a *Shopper* briefing why a Pentium II notebook would not be silly overkill for a business traveler: “You need that 512K of cache because you want that e-mail to just pop onto the screen.”)

Yet I can't deny that Intel and its competitors are making possible some jaw-dropping, wallet-opening bargains. If you're shopping, just keep it simple and count your blessings. ▼

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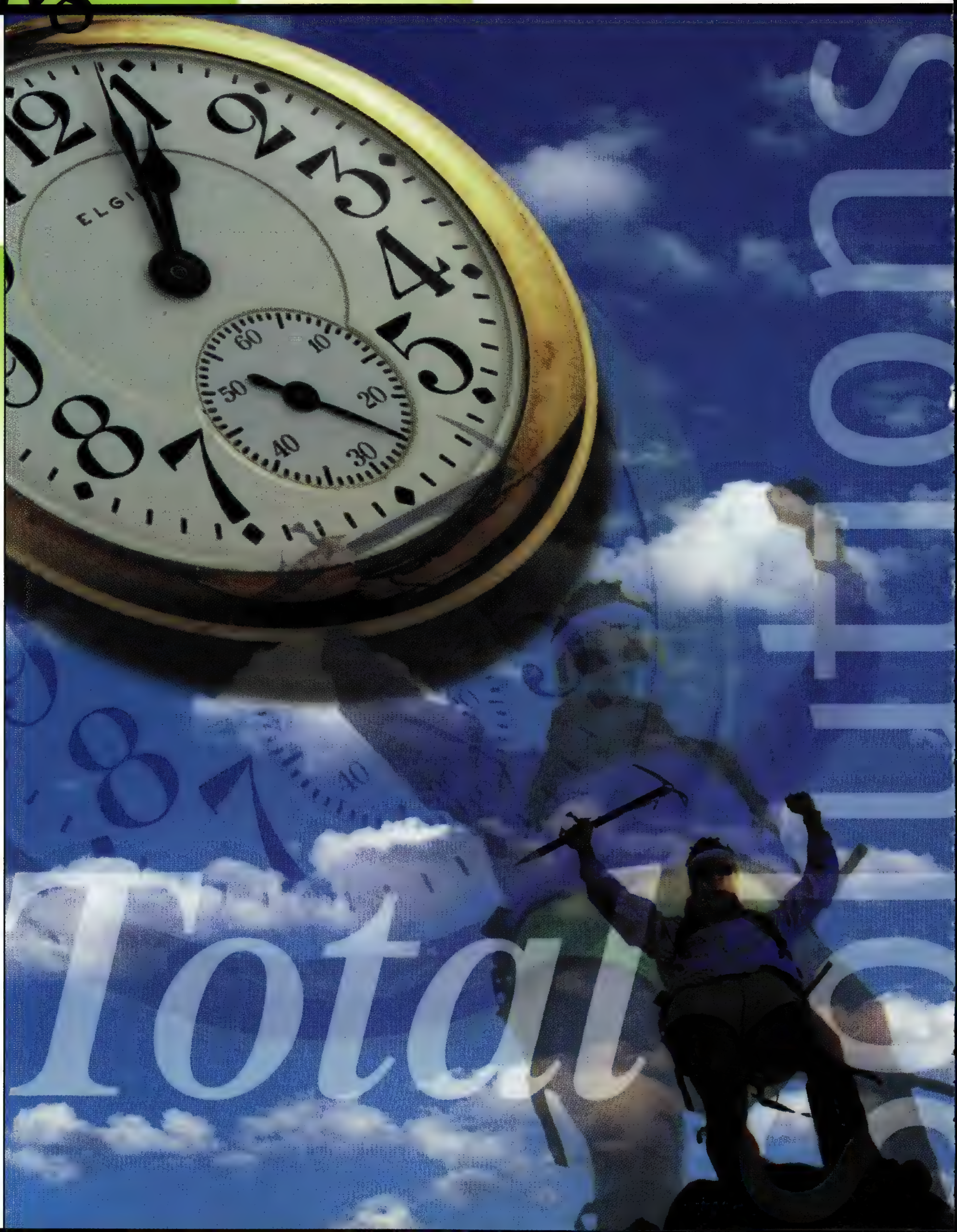
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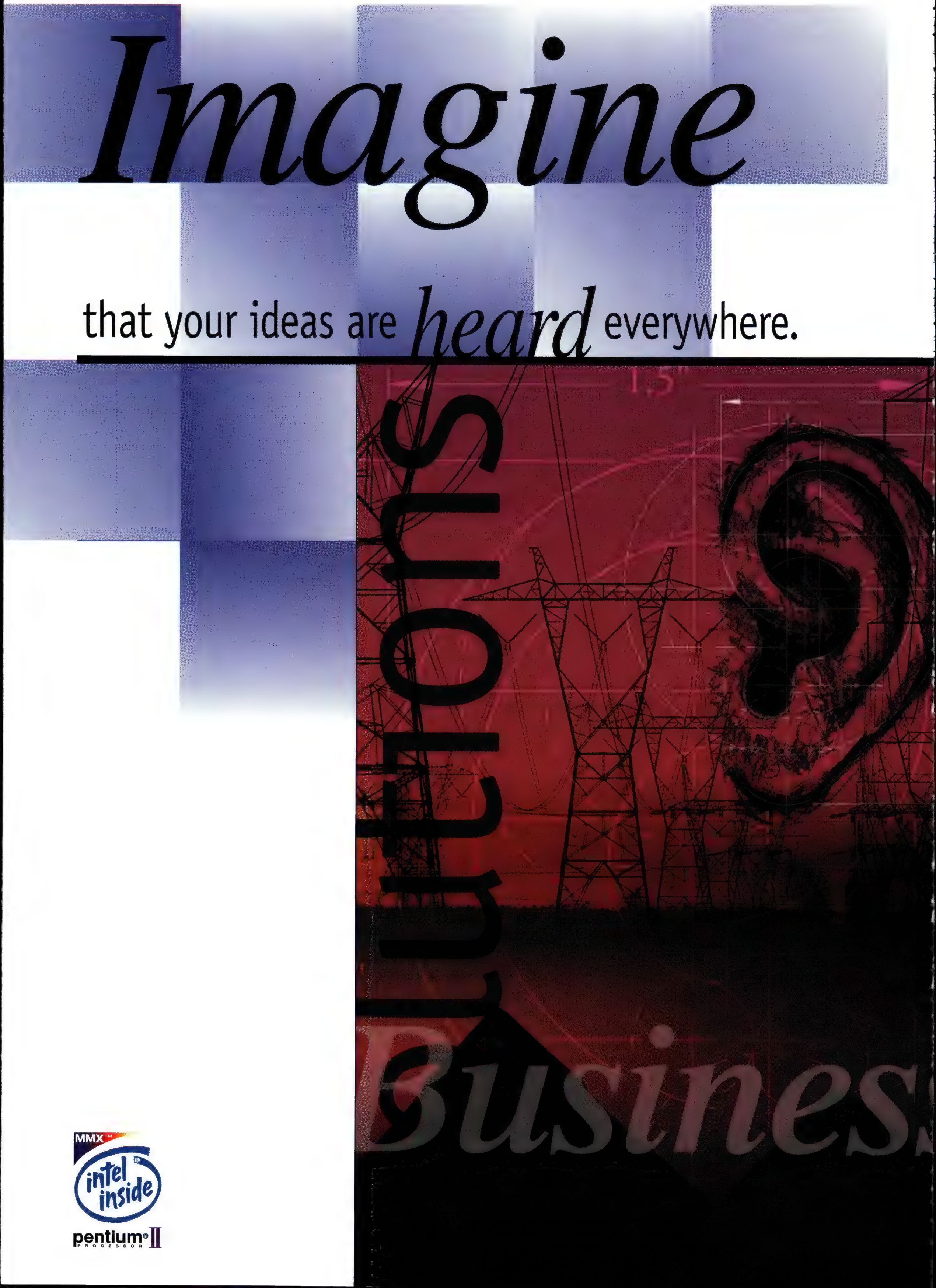
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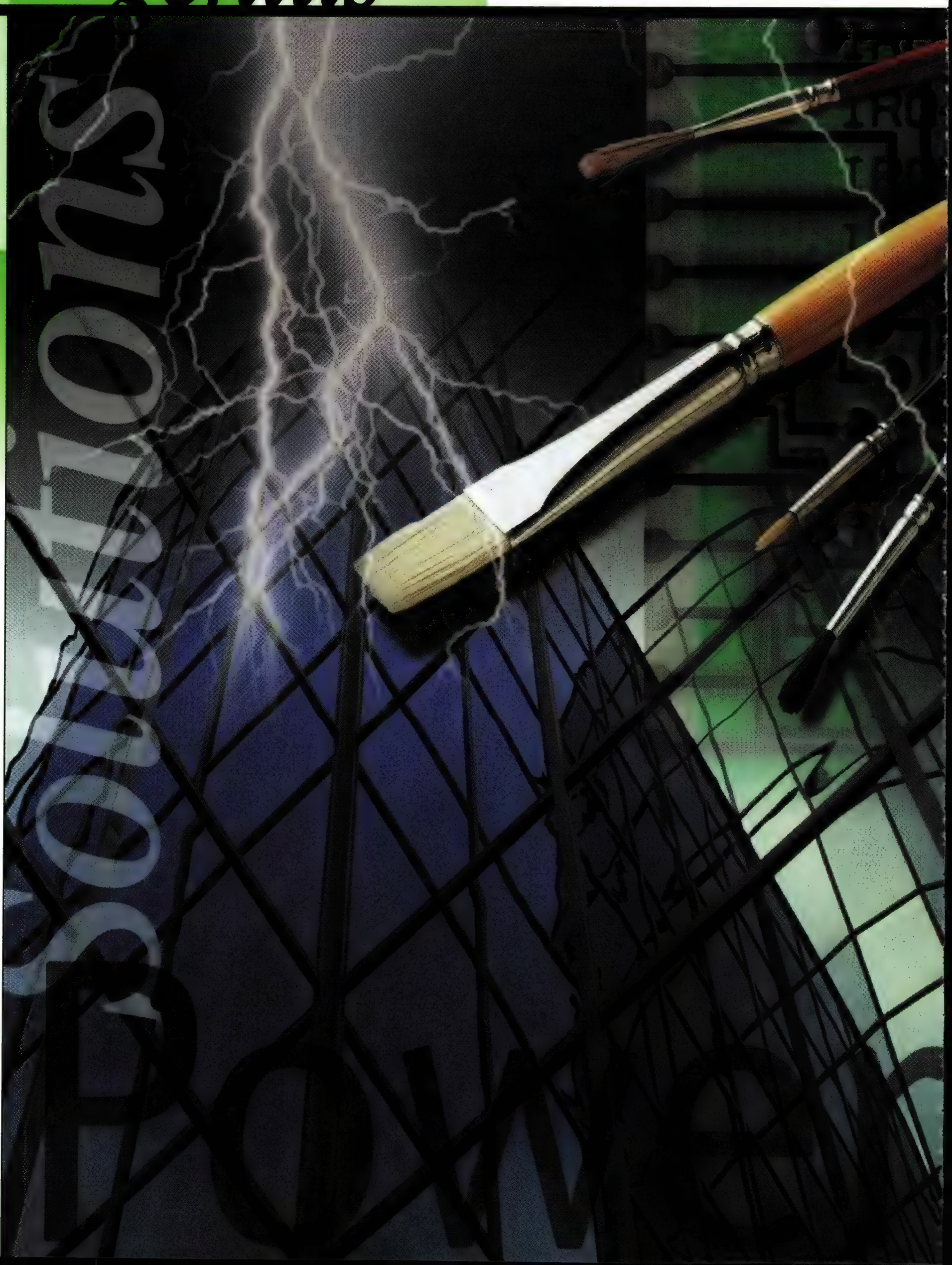

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104-key enhanced keyboard
Microsoft IntelliMouse, USB connections
Microsoft Windows 95 and MS Plus!
Microsoft Home Essentials
5-year/3-year Micron Power
limited warranty

$3,099

Cons. lease **$123/mo.**

Millennia 350 Office Edition

Intel 350MHz Pentium II processor
(features MMX technology)
64MB SDRAM
6.4GB Ultra ATA hard drive
17″ Micron 700 FGx, .26dp monitor (16″ display)

82440BX chip set
512KB internal cache, 2MB Flash BIOS
3.5″ floppy
32X EIDE variable speed CD-ROM drive*
128-bit AGP 3D video with 4MB SGRAM
10/100 PCI network adapter
64 voice PCI Wavetable sound, stereo speakers
104-key enhanced keyboard
Microsoft IntelliMouse, USB connections
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition
5-year/3-year Micron Power
limited warranty

$2,499

Bus. lease **$87/mo.**

Millennia 400 Office Plus Edition

Intel 400MHz Pentium II processor
(features MMX technology)
64MB SDRAM
8.4GB Ultra ATA hard drive
17″ Micron 700 FGx, .26dp monitor (16″ display)

82440BX chip set
512KB internal cache, 2MB Flash BIOS
Integrated 100MB Iomega Zip drive, 3.5″ floppy
32X EIDE variable speed CD-ROM drive*
128-bit AGP 3D video with 4MB SGRAM
10/100 PCI network adapter
64 voice PCI Wavetable sound, stereo speakers
104-key enhanced keyboard
Microsoft IntelliMouse, USB connections
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition
5-year/3-year Micron Power
limited warranty

$2,899

Bus. lease **$99/mo.**

---

* The CD-ROM drive will be removed upon the purchase of the DVD-ROM drive upgrade.

** Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and observed transfer rates may be less than the maximum potentials.

Business Solutions

NetFRAME® LV2001

Intel 233MHz Pentium® II processor
32MB ECC SDRAM
4GB Ultra Wide SCSI-3 hard drive
NOS support
(1 first-year incident resolution), 7x24

512KB integrated cache in SEC package
ECC SDRAM option (4 DIMM slots)
5 expansion slots: 4PCI, 1 ISA
Integrated Adaptec PCI Ultra Wide SCSI-3 controller
Intel EtherExpress™ Pro 100 network adapter
20X SCSI-2 CD-ROM drive
Upgradable to 36GB storage
Intel LANDesk® Server Manager 2.8
5-year/3-year Micron Power limited warranty
1-year next-business-day on-site service†

$2,399
Bus. lease **$84/mo.**

NetFRAME MV5001

Intel 233MHz Pentium II processor
64MB ECC SDRAM
4GB Ultra Wide SCSI-3 hard drive
NOS support
(1 first-year incident resolution), 7x24

512KB integrated cache in SEC package
9 expansion slots: 6 PCI, 2 ISA, 1 shared ISA/PCI
Dual integrated Symbios Ultra Wide SCSI-3 controller
Integrated Symbios narrow SCSI controller
Intel EtherExpress Pro 100 network adapter
20X SCSI-2 CD-ROM drive
I_2O-ready via embedded Intel i960-RD
5 internal, hot-pluggable, hard drive array bays (upgradable to 10)
1 360-watt hot-pluggable power supply standard (upgradable to 3 for added redundancy)
Intel LANDesk Server Manager 2.8
5-year/3-year Micron Power℠ limited warranty
1-year next-business-day on-site service†

$3,799
Bus. lease **$121/mo.**

ClientPro® 200

Intel 200MHz Pentium processor with MMX technology
32MB EDO RAM, support for SDRAM
2.1GB SMART EIDE hard drive
15" Micron 500Lx, .28dp (13.7" display)

Microsoft Windows NT Workstation 4.0
5-year/3-year Micron Power limited warranty

$1,199
Bus. lease **$42/mo.**

ClientPro 266

Intel 266MHz Pentium II processor (featuring MMX™ technology)
64MB SDRAM
3.2GB SMART Ultra ATA hard drive
17" Micron 700FGx, .26dp (16" display)

24X variable speed ATAPI CD-ROM drive
Network adapter with 3Com Remote Wake-up™ capability
4MB AGP 3D video
Microsoft® IntelliMouse™
Intel LANDesk Client Manager available
Microsoft Windows NT Workstation 4.0*
5-year/3-year Micron Power limited warranty

*Additional Microsoft software or operating system options available.

$1,899
Bus. lease **$66/mo.**

ClientPro 350

Intel 350MHz Pentium II processor (featuring MMX technology)
64MB SDRAM
6.4GB SMART Ultra ATA hard drive
17" Micron 700FGx, .26dp (16" display)

32X variable speed ATAPI CD-ROM drive
Network adapter with 3Com Remote Wake up capability
4MB AGP 3D video
Microsoft IntelliMouse
Intel LANDesk Client Manager available
Microsoft Windows NT Workstation 4.0*
5-year/3-year Micron Power limited warranty

*Additional Microsoft software or operating system options available.

$2,499
Bus. lease **$87/mo.**

†On-site service for NetFRAME LV2001 and MV5001 servers is provided by Digital Equipment Corporation and is optional.

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- 1-, 2- or 3-year optional on-site service agreement for Micron desktop and server systems
- 30 days of free Micron-supplied software support for Micron desktop systems; 3 optional network operating system incident resolutions included for Micron server systems
- 30-day money back policy
- 24-hour technical support

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(16" display)

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Intel 350MHz Pentium II processor
(features MMX technology)
64MB SDRAM
6.4GB Ultra ATA hard drive
17" Micron 700 FGx, .26dp monitor
(16" display)

82440BX chip set
512KB internal cache, 2MB Flash BIOS
3.5" floppy
32X EIDE variable speed CD-ROM drive
128-bit AGP 3D video with 4MB SGRAM
64 voice PCI wavetable stereo sound, stereo speakers
56Kbps data/fax modem†
104-key enhanced keyboard
Microsoft® IntelliMouse™, USB connections
Microsoft Windows® 95 and MS® Plus!
Microsoft Home Essentials
5-year/3-year Micron Power℠
limited warranty

$2,499
Bus. lease **$87/mo.**

Millennia XKU
Sept. '97

Millennia XKU
Jan. '98

Millennia XKU
Dec. '97

> **"Power users with a yen for great 3D will love the Millennia."**
>
> \- Millennia XKU, *PC Magazine*, September 1997

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- 30-day money back policy
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† Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and observed transfer rates may be less than the maximum potentials.

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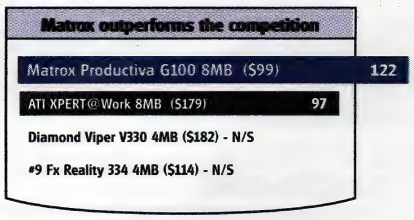

Since its new MGA-G100 graphics chip is optimized for Windows, Ellen gets the fastest 2D acceleration in the industry, and support for today's 3D and video-based business applications. Productiva G100's 8MB of memory secures unparalleled display quality. In fact, even at 1600 x 1200 resolution, viewing true color documents or multiple windows is a breeze. And with hassle-free unified driver support for all of today and tomorrow's major operating systems, she's got reliable performance across the board.

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*Estimated Street Prices accurate at time of printing. All tests conducted by Matrox Graphics Inc. using a Dell Pentium II 300Mhz with 64MB of RAM and 512K cache. Matrox Productiva AGP was tested with 8MB of memory using driver revision 3.82. ATI Xpert@Work AGP was tested with 8MB of memory using driver revision 4.10.01.2278. Diamond Viper V330 and Number Nine 9Fx Reality 334 were tested with 4MB of memory and using driver revision 4.10.01.0022 and 4.10.1102 respectively. WinBench 98 Business tests conducted at 1280x1024@24bit at 75Hz refresh using small fonts under Windows 95 OSR2.

matrox

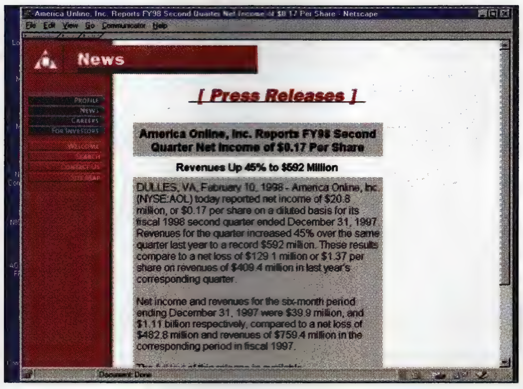
AOL Ups Access Prices

OTHER ISPs ARE LIKELY TO FOLLOW FLAT-RATE RISE

In mid-February, the largest online service provider, America Online, announced a $2 increase—from $19.95 to $21.95—in its monthly unlimited-access rate. The company says the rate hike will "fund continued improvement of its members' online experience and keep pace with the cost of members' increased usage." Despite those costs, a day after announcing the fee increase, AOL posted strong profit growth for the second quarter of fiscal 1998, beating both analysts' expectations and its results of a year ago.

To be sure, the cost of more users staying connected for longer amounts of time has been a problem for Internet service providers (ISPs) ever since flat-rate pricing became popular. According to Ulric Weil, a technology analyst at Friedman, Billings, Ramsey in Arlington, Va., the average AOL user logs on for about 23 hours per month. That's well above the 7 hours' average usage AOL customers logged just a couple of years ago.

"You can't just look at [AOL's] revenue gains; you have to look at the cost structure and the earnings performance," Weil says. "Look at [the company's] gross margins—they're under enormous pressure because communication and connection costs have tripled."


America Online, Inc. Reports FY98 Second Quarter Net Income of $0.17 Per Share - Netscape

[Press Releases]

America Online, Inc. Reports FY98 Second Quarter Net Income of $0.17 Per Share

Revenues Up 45% to $592 Million

DULLES, VA, February 10, 1998 - America Online, Inc. (NYSE:AOL) today reported net income of $20.8 million, or $0.17 per share on a diluted basis for its fiscal 1998 second quarter ended December 31, 1997. Revenues for the quarter increased 45% over the same quarter last year to a record $592 million. These results compare to a net loss of $129.1 million or $1.37 per share on revenues of $409.4 million in last year's corresponding quarter.

Net income and revenues for the six-month period ending December 31, 1997 were $39.9 million, and $1.11 billion respectively, compared to a net loss of $482.8 million and revenues of $759.4 million in the corresponding period in fiscal 1997.

With average use up well over 200 percent, AOL hikes rates by just 10 percent.

Weil says other ISPs could follow AOL's lead and raise prices or impose a limit on connect time—as has IBM, which restricts its $19.95 subscribers to 100 hours per month. Raising subscriber fees or limiting connect time, he says, would likely help ISPs enhance profits, adding that right now, "MindSpring Enterprises is the only public ISP that is truly profitable."

For consumers who aren't thrilled about paying higher prices, finding a provider that offers cross-subsidization could be the solution. MCI, for example, offers unlimited access for $14.95, provided that the user is also an MCI long-distance customer. AT&T offers a similar reduced rate for its long-distance customers who use its WorldNet Internet service.

Still, many consumers may not mind a slight increase in access fees if their Internet providers deliver reliable connections, helpful support, and value-added content. In that case, Weil says, most users will barely notice "an extra $2 from America Online."

—Keith Kirkpatrick

SNAP A DEAL

Take pictures with Toshiba Imaging Systems' new PDR-2 digital camera ($299 estimated) and get $50 cash back with a mail-in rebate offer good through June 30. The 24-bit color camera delivers 640x480-pixel images and ships with a 2MB flash memory card to download photos into any notebook that has a PC Card slot. Get rebate coupons from Toshiba's Web site at *www.toshiba.com/taisisd.*

SCAN IT

Purchase the Umax Astra 610P 30-bit flatbed scanner through May 31 and receive $20 cash back when you return the vendor's rebate coupon. The scanner is available for an estimated selling price of $129, plugs into a PC's parallel port for easy installation, and scans at an optical resolution of 300x600 dpi.

TALK IS CHEAPER

Tell your computer about the rebate savings offer you discovered, and it will listen: When you buy IBM's ViaVoice or ViaVoice Gold speech-recognition software before June 30, you're eligible to get $25 cash back. Both programs allow continuous speech dictation; ViaVoice Gold features command, control, and navigation functions, plus dictation shortcuts, and works with most Windows applications. ViaVoice lists for $99; ViaVoice Gold for $149.

A SAVINGS BITE

Avatar Peripherals offers mobile users a $50 cash-back rebate on its Shark 250MB portable hard drive or Shark 250 Pro drive ($249 or $299 estimated, respectively). The Shark 250 ships with either a parallel-port or PC Card cable connection; the Pro comes with both types of cables in the box. The offer expires July 31.

DOUBLE PRINTS

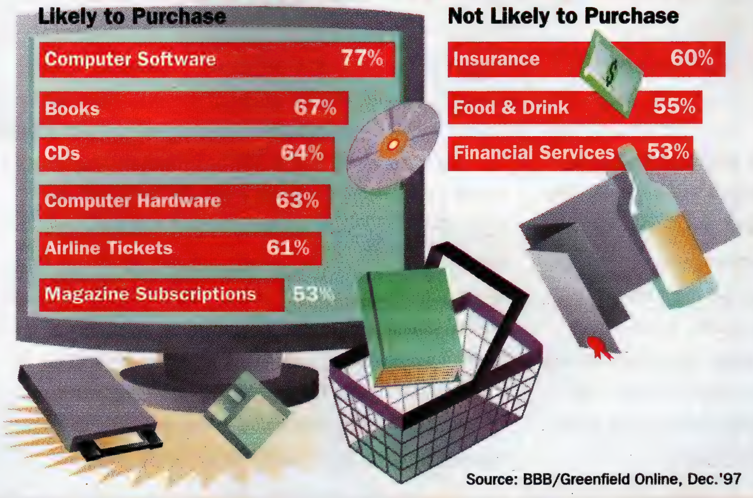
Want to digitize your snapshots and develop them yourself? You can, and get savings to boot, with Epson America's double-up offer: Buy the Epson PhotoPC 600 digital camera ($699 estimated) and an Epson Stylus Color or Stylus Photo inkjet printer, and you can receive either $50 cash back or a free 4MB CompactFlash card for the camera. Eligible printer models include the Stylus Color 400, 600, 800, 1520, and 3000; their estimated selling prices range from $179 to $1,999. Both camera and printer purchases must be made by May 31.

SUPER SAVINGS

Replace your floppy drive with Imation's SuperDisk LS120 parallel-port drive and save money. Buy a SuperDisk drive, which can read and write both standard 3.5-inch floppies and 120MB SuperDisks, anytime before September 30 and mail in the rebate form within 30 days of purchase to get $50 cash back. **—Fran Bosecker**

When you ask consumers whether they're willing to buy products and services via the Internet, the issue of credit-card security is a lot less important than the simple matter of what's being sold. In a recent survey conducted for the Better Business Bureau, many respondents cited PC software and hardware, along with other well-established Web staples like books and CDs, as suitable for ordering online. By contrast, even active Internet shoppers said they were unlikely to buy food or insurance from a Web site.

What People Will and Won't Buy Online



Source: BBB/Greenfield Online, Dec.'97

INFOGRAPHIC BY ROSE ZGODINSKI

SHOPPER LIVE

Chat with Tami D. Peterson and other savvy shoppers in her "Personal Shopper, Live" forum, Tuesday nights from 9-10 p.m. (ET) at *www.cshopper.com/discuss.html.* Matt Klare leads a discussion of the latest trends in DVD May 4-8; Loyd Case has the scoop on the second generation of PCI-based 2-D/3-D graphics accelerators May 11-15.

FEATURE

BY BILL DYSZEL

The Direct Experience

Dialing for Downloads

Why idle at the gates of the "World Wide Wait" when you can cruise on through? If you haven't yet replaced your old 33.6Kbps or slower modem, but don't care to spring for ISDN service, plenty of 56Kbps analog modems crowd the marketplace. Buying one is simple enough—as long as you make sure your new purchase will protect your investment and will work with your dial-up connection.

As this issue went to press, the International Telecommunications Union (ITU) had agreed on a unified standard called V.90 that promised to end the confusing clash between two rival 56Kbps technologies, 3Com Corp.'s x2 and Rockwell International and Lucent Technologies' K56flex.

Official ratification of the new standard isn't expected until this fall, but that's no reason to delay a purchase if you shop with two things in mind—first, learning which technology a modem uses and whether it can be upgraded to the ITU standard; and second, checking whether the modem is compatible with those of your Internet service provider (ISP). If the modems don't match, you can still communicate, but your downloads will be limited to a maximum of 33.6Kbps.

The other possible bottleneck to bear in mind is your phone line. Not every line can actually transmit data at 56Kbps (or at the FCC's actual limit of 53Kbps), and some reach that speed only on occasion. (See the sidebar, "Fine Lines," for how to learn whether your line will support a faster modem before you buy.)

If you keep the above lessons in mind, you'll know all you need to know about buying a 56Kbps modem—more, in fact, than many folks who sell them, although some vendors are more modem-savvy than others. I found examples of both types when I set out to test four direct resellers by posing as a home-office user looking to upgrade the 28.8Kbps modem inside my 120MHz Pentium desktop.

Since the V.90 agreement hadn't been announced, I left it up to the vendors to explain 56Kbps protocols. I told each that I subscribed to a well-known ISP, AT&T WorldNet, and that I'd prefer to spend no more than $150 for my new modem—unless the rep had something really tempting to suggest.

COMPUTER DISCOUNT WAREHOUSE

My first call was to one of the direct channel's largest superstores, Computer Discount Warehouse (800-826-4239; *www.cdw.com*). The sales rep who picked up the phone was quick to recommend 3Com's U.S. Robotics Sportster 56Kbps Faxmodem for $147 (after a $50 rebate, she noted).

When she asked whether I needed an external or internal version, I said I wasn't sure but was currently using an internal modem; she suggested staying with an internal version, assuring me that a swap would be easy enough. When I inquired about fax capability, she said the Sportster had everything I need, both hardware and software, to send and receive faxes.

She wasn't sure whether I could use my Caller ID service with the modem, recommending that I contact 3Com/U.S. Robotics for more details, and had a similar reply when I remarked that I'd heard 56Kbps modems can't always achieve 56Kbps transmissions: To determine whether the technology would work on my line, she said, "You'll have to contact U.S. Robotics or your local phone company."

As for CDW's return policies, she told me that if the modem proved to be incompatible, I could send it back within 30 days for a full refund minus shipping costs. She hesitated when I asked whether CDW would pay for return shipping if the unit was dead on arrival, but ventured, "We'd probably take care of that." I made a mental note to request that assertion in writing if I were to buy.

When shopping for a faster modem, homework helps.

Fine Lines

When is 56Kbps less than 56Kbps? When your phone line can't handle that much bandwidth.

Though downloads at the FCC's approved limit of 53Kbps are achievable under ideal conditions, older phone lines may be too noisy to allow clean transmissions at top speed. Even some new lines are so crammed with data—the multiplexing of many conversations and data transmissions onto some segments—that there simply isn't enough bandwidth leftover for a 56Kbps connection.

So before you buy a 56Kbps modem, you should check your telephone line's capacity. 3Com Corp. maintains a special number you can call using any standard V.34 modem—even your old 28.8Kbps model—to test your line for 56Kbps capability. The results will tell you whether or not your line can handle 3Com's x2 protocol, but if your line can handle x2, it should also handle K56flex or the V.90 standard.

You can get complete details on how to perform the test at *www.3com.com/56k/need4_56k/linetest.html*. Basically, it involves calling the test number (888-877-9248) on any standard phone line, using a generic communications package such as Windows 95's HyperTerminal. Because line conditions can change over time, 3Com suggests that you check any line you use more than once at various times of the day. Also, phone companies upgrade phone lines regularly, so don't be discouraged if your line isn't up to snuff just yet—check again later.

—B.D.

DATACOM MALL

My second call was to Datacom Mall (800-607-3282; *www.datacommall.com*), a division of PC Mall. The representative quickly ran down a list of familiar modem brands, including Hayes Microcomputer Products' Accura and Diamond Multimedia Systems' Supra, before settling on a Motorola ModemSurfr internal unit priced at $79.

He was less helpful when I launched into my questions about 56Kbps standards, initially claiming that I'd be ahead of the game if I upgraded to either standard, because my ISP could "download to either one."

When I asked which standard the Motorola modem supported, he couldn't tell me beyond guessing, "I'm sure it's one of the two." He did know the modem had a Rockwell chip set, but didn't realize that meant it was a K56flex, not x2, design.

I moved on to the issue of phone-line quality, asking how I could know whether I'd get full 56Kbps speed on my line. The rep said confidently that "it isn't going to matter" as long as I didn't have ISDN—that I'd be OK as long as my line was analog rather than digital.

Venturing back to more basic questions, I asked, "Is it difficult to change an internal component in my computer?" He assured me that, as long as I had a free ISA slot, the job would be no problem: "That's where you'd probably install it, anyway."

When I asked about the company's return policy if I found the unit to be incompatible with my system or ISP, the rep was much more clear: "Incompatibility is not a reason for a return" at Datacom Mall. If the modem was defective, the company would accept it for exchange, but would not pay for return shipping; it would only cover shipping costs on a replacement unit.

Motorola's own warranty on the ModemSurfr provides 60 months' coverage of parts and labor, and Datacom Mall does offer tech support for help with installation problems.

56K
01001010

PHOTOGRAPHY BY CHRIS GOULD

MICROWAREHOUSE

At MicroWarehouse (800-367-7080; *www.microwarehouse.com*), the sales rep who took my call was enthusiastic, but no more expert than the first two on the nuts and bolts of 56Kbps technology.

He began by asking whether I had any brand preference; when I said I didn't, he picked 3Com's U.S. Robotics Sportster 56Kbps internal voice modem. The package supported fax, voice mail, Caller ID, paging, distinctive-ring support, and just about any other feature I could think of; MicroWarehouse listed the unit at $217.99, but a $30 manufacturer's rebate would bring that down to $187.99.

This rep seemed genuinely happy to report on the experiences of his friends and colleagues who owned Sportster modems. He described a startling amount of faxing, e-mail forwarding, and paging on their part, adding that it doesn't take long to "turn into a big geek" with this stuff.

I pointed out that his price was a bit over my $150 budget; he responded by recommending a Practical Peripherals x2 internal model with comparable features for $129.99.

When I commented that both units were x2 modems rather than K56flex, he asserted, "x2 is the prominent technology." He then guessed at compatibility between the two standards, saying, "I believe that you can cross over."

I went on to ask if an x2 modem would be compatible with my AT&T WorldNet service. "Absolutely!" he replied—correctly for me, since AT&T offered x2 but not K56flex service in New York City at the time, but incorrectly for customers who live where AT&T doesn't support the x2 spec.

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ZDNet/CompuServe Edition
GO ZNT:CSHOPPER

I mentioned I'd heard that some phone lines can't handle 56Kbps no matter what you do, and wondered whether that problem might affect me. He acknowledged the issue, but admitted, "I don't know how you could know [without trying]." Then he volunteered that, since "the [telephone] poles were put up 50 years ago," their lines might not be able to carry all the data we send today.

My question about installation was easy for him to field because MicroWarehouse offers free technical support. "If you have any trouble, they'll walk you through it," he explained confidently. The vendor also offers a 30-day, no-questions-asked money-back guarantee and pays for return shipping of defective products.

THE MODEM SHOP

You'd expect the people who work at a place called The Modem Shop (800-320-1898; *www.modemshop.com*) to know a lot about modems, but I was still happily taken aback when my sales rep started our conversation by asking, "Do you currently log on at 28.8Kbps or something slower like 26Kbps or 23Kbps?"

When I confessed that I hadn't really noticed, he explained that if my phone line wasn't letting me log on at my existing modem's maximum, I'd be wasting my money by buying a 56Kbps modem because I wouldn't see any improvement in performance.

Delighted to encounter a salesperson with both the knowledge and integrity to suggest that I avoid spending money for which I'd get no value, I checked and discovered that my dial-up connections did indeed reach 28.8Kbps, making a 56Kbps purchase worth my while.

Then the Modem Shop rep asked another intelligent question: whether I wanted x2 or K56flex technology. When I said I wasn't sure, he accurately explained, "These are different standards used in different places, and they are utterly incompatible." I said that I usually connected via AT&T, and thought it supported x2. He knew off the top of his head that AT&T supports different standards in different locations, so he suggested that I contact WorldNet tech support to be sure which standard I would need in my area.

If my local choice proved to be x2, I asked, which brand would he recommend? "If you get x2, get U.S. Robotics—it's their standard," he said, adding that 3Com/U.S. Robotics also offered the best return policy.

He suggested the Sportster x2 internal model but its price was $194.95, and the $50 rebate had just expired a few days before. Obviously in no hurry to push me into a sale, he suggested I wait a few

(continued on page 122)

PERSONAL SHOPPER

BY TAMI D. PETERSON

Get SET for Safer SHOPPING

SOON, YOUR CREDIT CARD WILL BE SAFER ON THE NET THAN IN A STORE

Buying products over the Internet is not inherently safer than doing so via any other distribution channel, nor is it inherently riskier—something consumers seem slow to realize. This year, shoppers who've been uneasy about posting their credit-card numbers on the Net could get another reason to relax: widespread adoption of the Secure Electronic Transaction (SET) standard for online purchases. Indeed, vendors may be even more enthusiastic about SET than users, because it validates the idea of secure transactions.

SET goes beyond the basic encryption of Secure Sockets Layer (SSL), the protection scheme of most commerce products today, by using digital "certificates." These certificates are authenticated by an authorized third party to validate buyers and sellers, securing both sides of a credit-card transaction.

Although MasterCard, Visa, and their partners have been promoting the SET standard for years, it's been slow in coming. Even now, concerns about the convenience of SET-enabled products and their interoperability may hinder acceptance in the short run. As of this writing, there are still no SET-certified products—only many that are SET-ready.

"SET is really a rallying cry for online merchants," says Dave Taylor, chief technology officer and founder of the Internet Mall (*www.ordereasy.com*). One of his company's products, OrderEasy, is a SET-ready Web cash register already widely in use.

While plenty of vendors appreciate SET's benefits, Taylor thinks end users can take it or leave it. He believes consumers show limited interest in the issue, since they're generally confident that their card companies will limit their liability, even if there is a problem. More than anything else, he says, shoppers want convenience, particularly for impulse buying: "It's in stock? Cool, ship it."

It's probably true that most consumers don't want to know the intricacies of Internet transactions, any more than they care to learn what takes place once they hand a waiter a credit card at dinner. Buyers are fairly certain a bill will reach them later, and that they'll take things from there.

But for those still nervous about buying via the Web, the SET protocol provides a level of protection far more secure than any available before—online or in-person. With SET, the vendor never even sees the customer's credit-card number.

TOP-SECRET TRANSACTIONS

In worldwide pilot tests, SET has proven so effective that credit-card companies are offering vendors a coveted incentive if they move to SET—treating transactions as if the vendor and seller were face to face. Before this, vendors have been at the mercy of Internet fraud more than consumers.

The change involves the way credit-card purchases are categorized. In so-called "face-to-face" transactions, retailers are absolved from cardholder fraud because they accept and scan a physical piece of plastic. If the cardholder later disputes the transaction—e.g., says his or her card was stolen—the merchant does not incur a charge-back directly. Instead, the merchant's bank absorbs the loss if one materializes.

Mail-order and telephone vendors, on the other hand, have always assumed a higher level of liability. Their transactions come under a category termed "card not present." Thus, if a cardholder says the purchase was made without his or her authorization, the vendor assumes an immediate charge-back, and may be required to absorb the full loss if cardholder fraud proves to be involved.

For vendors accepting credit-card purchases via the Web, the "card not present" model has typically been the rule—and "almost put [our] company out of business," says Steve Klebe, senior vice president of CyberSource Corp., which owns the digital software distributor Software.net (*www.software.net*).

After being burned repeatedly by credit-card charge-backs, CyberSource is now one of the major suppliers of Web services specializing in fraud detection, including its CommerceEZ system. By using its SET-ready technology on Software.net, Klebe says, "We've brought fraud down to 1 or 2 percent [of sales]," compared to previous highs of 40 percent.

Visa was the first credit-card company to pledge that vendors who accept payment from customers via SET-certified wallets will receive all the benefits applicable to "face-to-face" transactions. And with products like CommerceEZ and OrderEasy benefiting both vendors and customers, SET can form some tempting icing on the cake—or will, once the early-adopter issues are ironed out.

Given the financial incentive to adopt SET, vendors seem eager to see that day. As for consumers, their present charge-back privileges aren't obviated when using SET wallets (although, again, the ease of finding SET transactions will vary in the beginning; you may even temporarily find yourself with more than one SET wallet in your virtual purse—a contradiction of the whole e-wallet concept).

Ultimately, once buyers realize the superior protection SET offers, they may be inclined to seek out sites bearing the new SET Mark certification logo (for more on that, see *www.setco.org*).

Of course, as noted in last month's column about Web-site quality-assurance decals (April 1998, p. 82), don't take SET Mark as all-inclusive protection. While it guarantees the security of your credit-card information, says Steve Herz, senior vice president of consumer electronic commerce for Visa International, "SET does not guarantee the delivery of goods." You need to practice smart shopping when buying over the Internet, just as you do in any other distribution channel. ▼

READERS' TIP

Finance Your Free Trial

Try to time your direct purchases so the vendor's charge arrives at your credit-card issuer just after your statement closing date. You'll nearly double your payment "grace period" and give yourself the time to evaluate a product under a 30-day guarantee without having to make a payment that might have to be reversed should you return the product.

—Joshua Wertheim, Miller Place, NY

The BUY LINE

If you'd like to get your Buy Line in Computer Shopper, send your direct-buying or tech-support advice to Tami D. Peterson via e-mail (Tami_ Peterson@ zd.com) or postal mail (1 Park Ave., 11th Fl., New York, NY 10016). We'll print the best reader-submitted tip each month and also send the winning tipster a special gift. So tell your fellow readers how to shop smarter!

PHOTOGRAPHY BY BILL MILNE

SECTION CONTINUES ON PAGE 122

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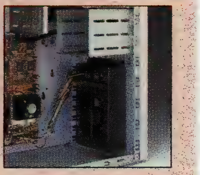

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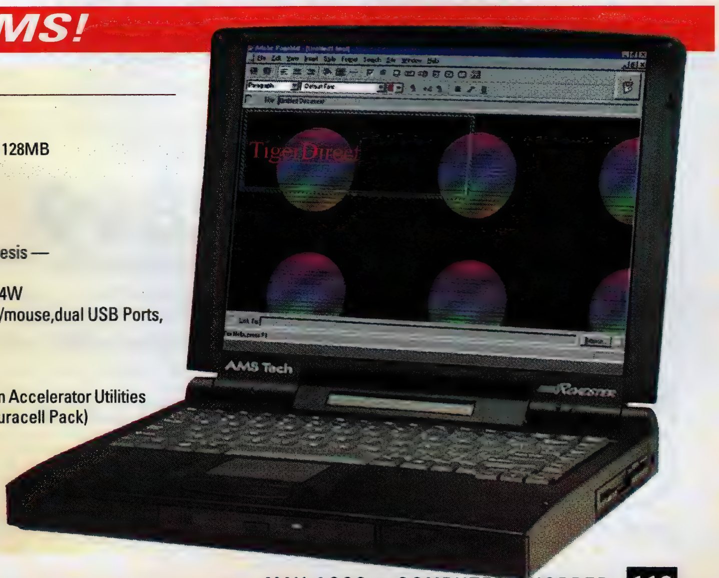

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- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
- 6.9 Pounds*

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- 64MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- MS Office 97 Small Business Edition
- 6.9 Pounds*

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★ *Upgrade to MS Office 97 Professional, $199.*

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WITH MMX TECHNOLOGY

Common features listed above plus:

- 13.3" XGA Active Matrix TFT Display
- 32MB SDRAM Memory
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
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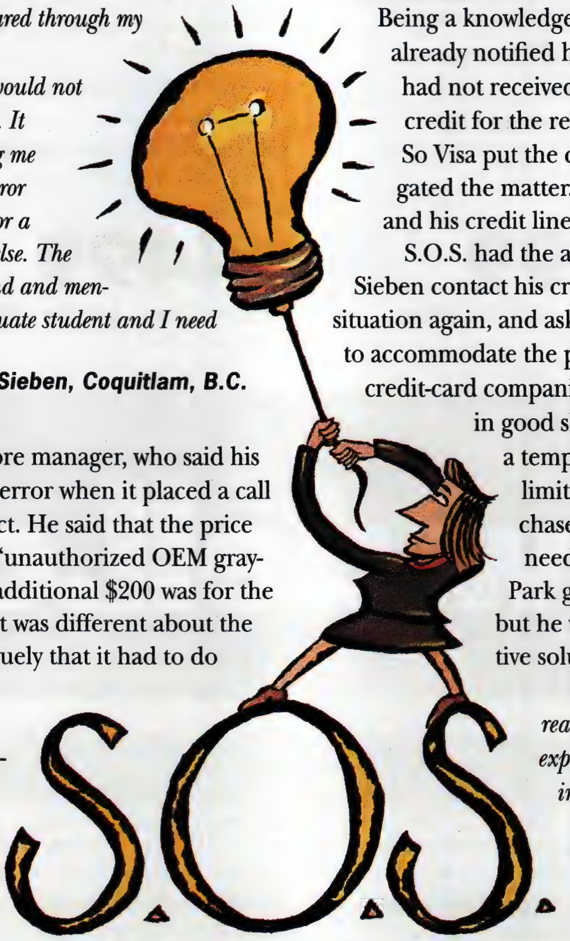
THE BUCK STOPS IN BROOKLYN

A reader writes:

On January 30, 1998, I placed an order with Marine Park Electronics in Brooklyn, N.Y., for a Hitachi VisionBook 4360X notebook for $1,699 plus $35 UPS shipping. Two days later, the purchase cleared through my Visa account.

The next day, Marine Park Electronics said I would not get my order unless I paid approximately $200 more. It claimed that a mistake had been made when quoting me the price, and that the company did not notice the error until after it had billed my Visa card. I then asked for a refund so that I could purchase the item somewhere else. The store manager said it would take 45 days for a refund and mentioned the possibility of a restocking fee. I am a graduate student and I need the computer to finish my thesis.

Brian Sieben, Coquitlam, B.C.



S.O.S. called Marine Park and talked to the store manager, who said his store realized its initial quote to Sieben was in error when it placed a call to verify his order prior to shipping the product. He said that the price Sieben had originally been quoted was for an "unauthorized OEM gray-market" version of the Hitachi notebook; the additional $200 was for the authorized version. When S.O.S. inquired what was different about the less expensive model, the manager replied vaguely that it had to do with the software, the warranty, or the battery.

A note about gray-market systems: These are PCs picked up through the channel by vendors from various sources. They may be perfectly good, but come without the extras most consumers expect—for example, a warranty, a printed manual, or a copy of Windows 95. In other words, if you're a computer maven looking for something basic and cheap, a gray-market system may be worth checking out. Most buyers, however, should go for the full system.

The store manager agreed, however, that Sieben was due a full refund, having requested one within the company's normal seven- to 10-day return period. This led to the grad student's second concern: the time lost.

HUNG UP ON CREDIT

Being a knowledgeable consumer, Sieben had already notified his credit-card company that he had not received the notebook, nor received a credit for the refund after canceling his order. So Visa put the charge on hold while it investigated the matter. Still, he needed a computer, and his credit line was maxed out. What to do?

S.O.S. had the answer: She suggested that Sieben contact his credit-card company, explain the situation again, and ask that his credit line be raised to accommodate the purchase of a laptop. Most credit-card companies will, if your credit history is in good shape, be glad to extend either a temporary or permanent credit-limit adjustment for a major purchase. In the end, Sieben didn't need to go this route, since Marine Park got him the refund promptly, but he was happy to know an alternative solution was possible.

Each month, S.O.S. solves one reader's PC-shopping problem and explains how to keep it from happening to you. Submit a complete description and history of your problem to shophelp@zd.com. *We'll select and resolve only one case per month.*

Tips for Smart Shopping

- **Before you order a system, do your research to make sure that the vendor is one you feel comfortable dealing with. Talk to your friends, go online and check the appropriate Web sites or Usenet discussion groups, and check such resources as the Better Business Bureau (*www.bbb.org*).**
- **When the price of a system seems remarkably low, make sure you and the vendor are on the same wavelength. Ask if the system is a gray-market unit, or in any way different from a higher-priced model with seemingly similar features. Then get a price quote faxed to you, specifying exactly what is being sold, before you complete the purchase.**
- **If your credit line is maxed out due to a previous dispute, talk to your credit-card company about temporarily or permanently extending your line of credit.**

Dialing for Downloads

(continued from page 117)

days. Sure enough, 3Com repriced the unit several days later to $147.95 after a $30 rebate.

Though its representative's acumen and low-pressure selling style were the most impressive of any I reached, The Modem Shop is a tiny outfit compared to the big direct superstores, and it's only open from 9 a.m to 5 p.m. weekdays (PT). Also, though the vendor offers a 30-day money-back guarantee on the Sportster, its policies can vary by product.

A SWIFT DECISION

While the quality of the recommendations I heard varied greatly, each of the vendors I called offered the same range of choices and fairly comparable prices. None had an exclusive on a revolutionary new product or feature.

If you're not sure about the product you want, I'd pick The Modem Shop for its expert advice. But if you know exactly what you're after, feel free to shop on price, service, and return policies. When it comes to high-speed modems, a little research is your ticket to a buyer's market. ▼

Second Opinion

My calls to this month's sampling of vendors found several sales reps baffled by 56Kbps technology—making the one with a handle on things shine like a beacon in the night.

After a long wait for a sales rep at CDW, I was connected to one who asked what type of slot I'd be using. After a little more time on hold, she came back with a Cardinal 56K internal modem priced at $127, with a $40 manufacturer's rebate. She knew the modem used x2 technology, but didn't offer any K56flex alternatives. When I asked about real-world throughput, she inaccurately assured me that a 56Kbps modem "works with any phone line" and asked to take my order.

My call to Datacom Mall resulted in an offer of a 3Com Corp./U.S. Robotics Sportster with all the trimmings: voice and fax support. The price quoted was $184.99; at first the sales rep said there was a $50 rebate, but when I asked for the offer's expiration date, he checked, came back, and said the rebate was only $30.

At MicroWarehouse, a sales rep swiftly offered three choices: a Zoom modem for $115, a Practical Peripherals unit for $129.99, and the above mentioned Sportster for $149. There was no mention of rebates, and I had to ask about the modems' different technologies (only the Zoom was K56flex-based). This rep expressed his belief that "all phone lines can handle 56K; the extra speed just comes from data compression."

Compared to the superstores, the specialized Modem Shop was harder to reach, but worth the effort. My sales rep here, one of only two people taking orders the day I called, knew his products and patiently explained their key features and technologies. He even warned me not to expect much from modems' voice telephony features, and suggested I stay away from less-expensive designs that rely on host-based processing (so-called "Winmodems").

If I needed x2 technology, the rep suggested a Sportster at $147 (less a $30 rebate); if my ISP favored K56flex, he recommended a Diamond SupraExpress 56K at $110 (less a $20 rebate). As a bonus, I found *www.modemshop. com* to be a treasure trove of modem minutiae.

—Alfred Poor

ILLUSTRATION BY RICHARD A. GOLDBERG

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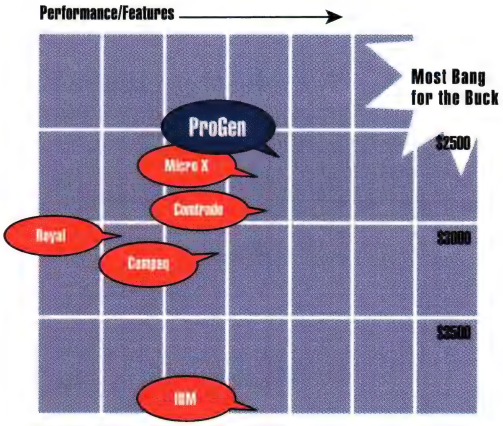

Source: FC Magazine, December 2, 1997

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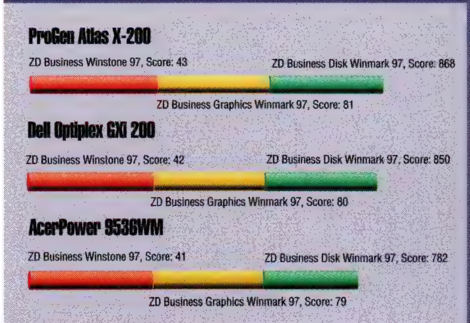

Source: PC Magazine, June 24, 1997

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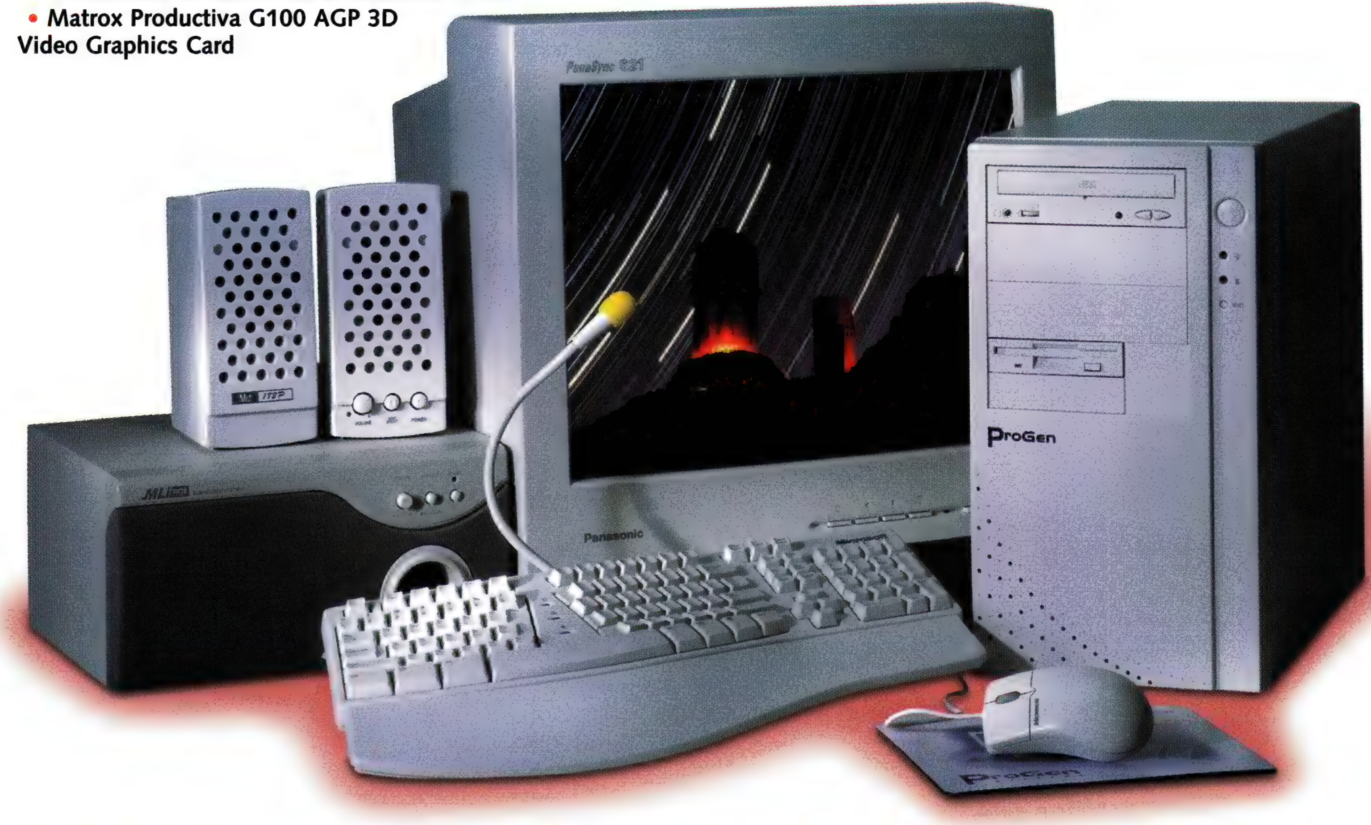

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- Intel LANDesk® Client Manager v3.1
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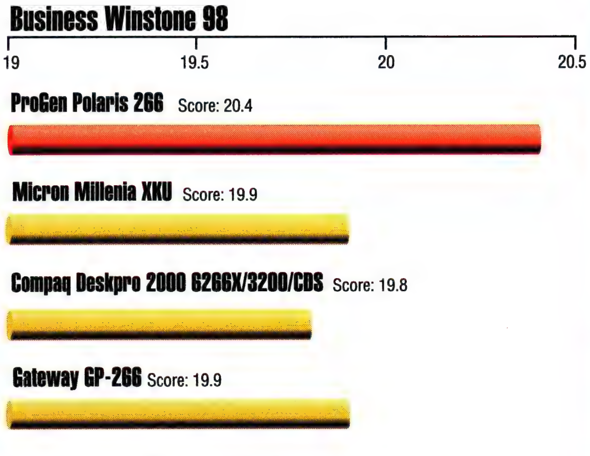

Source: PC Magazine, December 2, 1997

" ProGen Systems' Polaris 266W95 more than lives up to its claim to be a professional multimedia PC."

— PC Magazine, December 2, 1997

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Common features: A 3Com Network Ready™ System, 512KB Integrated L2 Cache, 15".28dp Digital PnP Monitor, **3Com 32 Bit Etherlink Network Card***, 56K Ready Telephony Modem,1.44MB FDD, MS IntelliMouse, Microsoft Natural Keyboard Elite, 2 Universal Serial Bus (USB) Ports, Home Office Suite, ProGen ProCare Warranty (3-year Limited, Warranty + 1-Year On-Site)

pentium® II PROCESSOR

- Intel 430TX PCIset
- 4.3GB Ultra DMA Hard Drive
- 32 MB EDO DRAM
- ProGen Gold 3D (S3 Virge) 4MB EDO DRAM
- 32X EIDE CD-ROM Drive
- MS Windows 95

233MHz **$ 999**
Intel Pentium® Processor with MMX™ Technology

- Intel 440LX AGP Chipset
- Support DMI v.2.0
- Intel LANDeck® Client Manager v.3.1
- 6.4GB Ultra DMA Hard Drive
- 32 MB SDRAM
- AGP Video Graphic Card, 4MB SGRAM
- 32X EIDE CD-ROM Drive
- MS Windows NT 4.0 Workstation v.4.0

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Intel Pentium® II Processor

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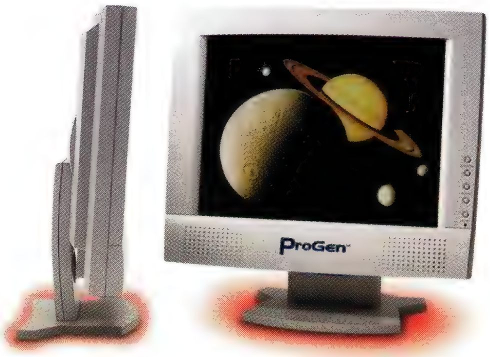
*Various 3Com Network Card Upgrade Options are Available

Extra Values



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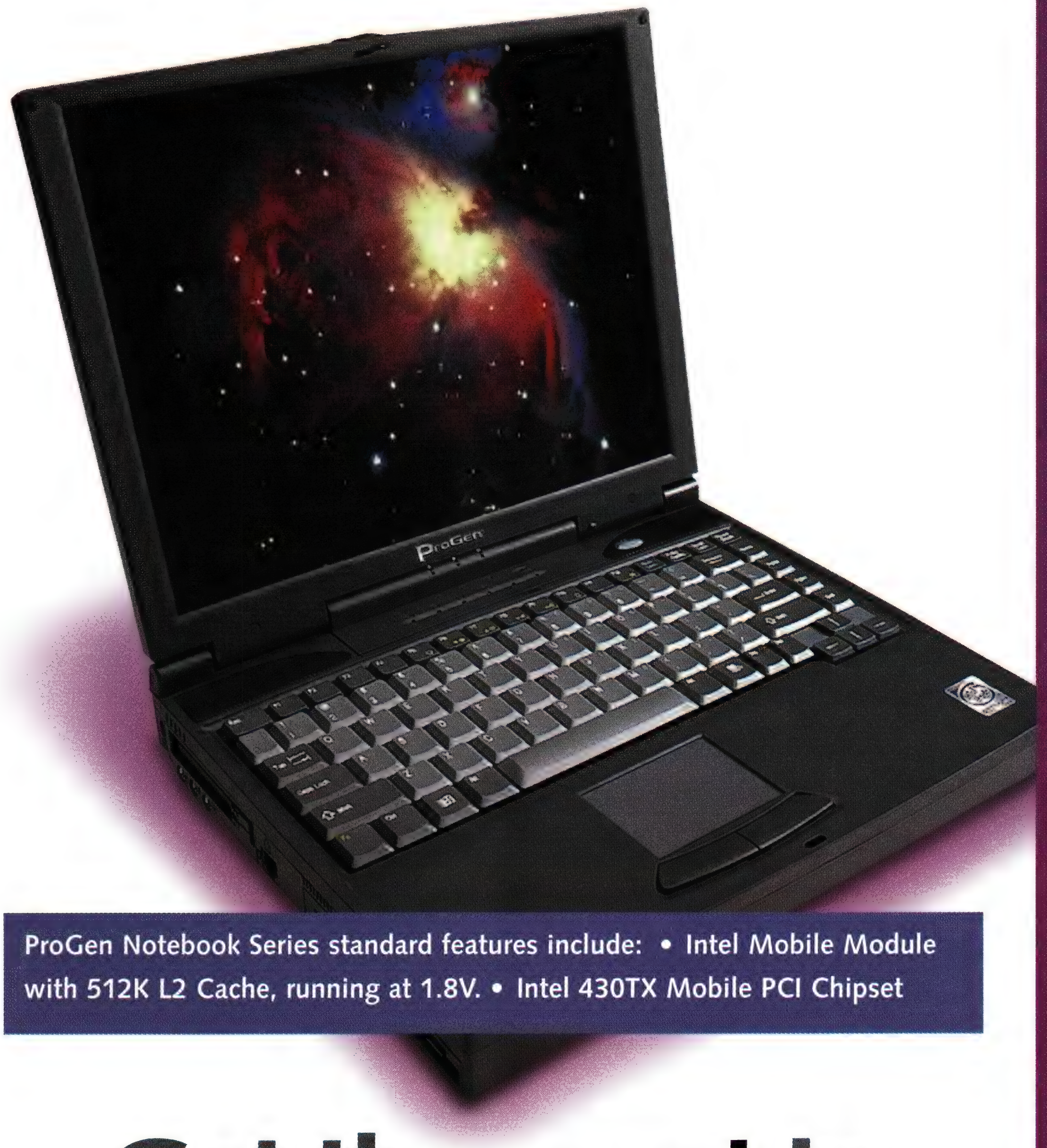

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- **Built-in 56K bps Fax/Modem**
- Max 20X CD-Rom Drive
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- Intel Mobile Module
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ProGen Notebook Series Standard Features

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- **Intel Mobile Module with 512K L2 Cache Running at 1.8V**
- **Intel 430TX Mobile PCI Chipset**
- PCI Bus with 64-bit 3D Graphic Accelerator, 4MB SGRAM
- Max 20X CD-ROM Drive
- **Built-in 56K Fax/Modem**
- ALPS Touch Pad Pointing Device
- **16-bit SoundBlaster Pro Compatible Stereo sound (supports 3D sound and wavetable)**
- Built-in Stereo Speakers and Microphone
- Infrared Module (including Utility) Supports FIR
- CardBus and Zoomed Video Support
- NTSC-video Output
- Built-in 3.5" FDD, 2 Type II or 1 Type III PCMCIA Slot
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- Carrying Case
- Microsoft Windows 95
- 1 Year Limited Parts and Labor Warranty

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	ProGen Notebook Series	Dell® Inspiron™ 3000 M266XT	Micron™ TransPort™ XKE
Intel Mobile Module	Yes	Yes	Yes
Pentium® Processor with MMX™ Technology	266MHz	266MHz	200MHz
Display Size	13.3" TFT XGA	13.3" TFT XGA	13.3" TFT XGA
Memory Size	32MB	32MB	32MB
Hard Drive Size	3GB	3GB	1.6GB
Modem	56K Built-in	None	56K PCMCIA
VGA	3D w/4MB SGRAM	2MB DRAM	2MB DRAM
Network Card	Yes	No	No
CDROM	20X Built-in	20X Built-in Modular Option	20X Built-in
Battery Type	Smart Lithium Ion	Smart Lithium Ion	Smart Lithium Ion
Price	$2,449	$3,499	$3,799

Dell and Micron prices and configurations are from Computer Shopper, Feb.'98

ProGen Notebook Series expands the horizons of portability and convenience with the power of the latest Intel Mobile Module 266MHz Pentium® Processor with MMX™ Technology.

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200MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
- 512K L2 Cache
- 2.1GB HDD
- 16MB EDO SO DIMM
- Built-in 56K bps Fax/Modem

$2149

233MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
- 512K L2 Cache
- 3GB HDD
- 32MB EDO SO DIMM
- Built-in 56K bps Fax/Modem

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266MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
- 512K L2 Cache
- 3GB HDD
- 32MB EDO SO DIMM
- Built-in 56K bps Fax/Modem

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200MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
- 512K L2 Cache
- 3GB HDD
- 32MB EDO SO DIMM
- PCMCIA 10BaseT Ethernet Card
- Built-in 56K bps Fax/Modem

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233MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
- 512K L2 Cache
- 4GB HDD
- 64MB EDO SO DIMM
- PCMCIA 10BaseT Ethernet Card
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266MHz

Intel Pentium® Processor with MMX™ Technology

- 13.3" TFT XGA Active Matrix Display
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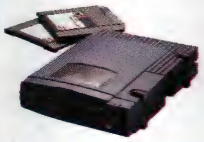

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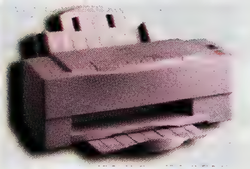

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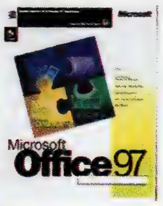

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The ViewSonic PS790 breaks the mold as the *first* 19" (18" viewable) short depth monitor.

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And, because we're confident in the quality of every unit, all monitors** ship with a ***limited 3-year warranty*** on CRT, parts and labor (the best in the business). As an option available anywhere in the U.S., we offer our **Express Exchange℠ Service** which will deliver a replacement unit within 48 hours.

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MacWarehouse	800-255-6227
Insight	800-249-4828
Global	800-829-0787
ClubMac®	800-258-2622
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# of what you don't.

ViewSonic PS790

ViewSonic® breaks the mold with the PS790, **THE FIRST** 19" (18.0" viewable) short depth monitor. With the footprint of comparable 15" models, the PS790 is designed for those who need a larger display area without compromising performance or desk space. The 0.25mm dot pitch delivers extremely sharp, crisp images while the SuperClear™ screen technology delivers up to 30% enhanced brightness and contrast, and up to 10% improved color fidelity over conventional CRTs. With a high 88Hz flicker free refresh rate at 1280 x 1024 resolution and a 1600 x 1280 maximum resolution, the PS790 produces crisp lines and sharp text. It offers *Plug & Play+*, OnView® digital controls, ViewMatch® color control and Invar shadow mask for sharp, rich consistent screen colors. The ViewSonic PS790 is TCO '95 certified, the world's strictest standard for low radiation, energy consumption, and recyclability, and is backed by a 3-year limited warranty with ViewSonic's Express Exchange℠ Service option.

ViewSonic GS771

The new GS771 is ViewSonic's smallest 17" (16.0" viewable) monitor with uncompromised performance and space efficiency. The GS771 is 3" shorter than comparable models, making it the ideal for all environments where space is restricted including business, students and home users. The GS771 uses a double dynamic focus system with advanced ARAG® screen treatment which provides extra sharp focus. The 0.27mm dot pitch delivers extremely sharp, crisp images while the SuperClear screen technology delivers up to 30% enhanced brightness and contrast, and up to 10% improved color fidelity over conventional CRTs. With a high 87Hz flicker-free refresh rate at 1024 x 768 resolution and a 1280 x 1024 maximum resolution, the GS771 produces crisp lines and sharp text. It has one of the highest vertical scan rates available to display flawless 3D applications. The ViewSonic GS771 complies with TCO '95, the world's strictest standards for low radiation and energy consumption and is backed by a 3-year limited warranty with ViewSonic's Express Exchange Service option.

E²™ Series

The most affordable ViewSonic monitors available on the market. They offer a wise alternative to inexpensive, inferior brands. The E² Series is designed with educational and entertainment needs and requirements in mind.

ViewSonic Model	CRT Size/ Viewable	Dot Pitch	Maximum Resolution	OnView® Digital Controls	Bezel Integrated Speakers
E641	14/13.2	0.28	1024 x 768	DIGITAL	
E655	15/13.8	0.28	1280 x 1024	YES	
E771	17/16.0	0.27	1280 x 1024	YES	
EA771*	17/16.0	0.27	1280 x 1024	YES	YES

*Also available in black bezel.

Graphics Series

These monitors incorporate features normally found in much more expensive models. They are the ideal choice for applications ranging from desktop publishing to full office automation. The Graphics Series for general business was designed to maximize high performance and technology at a reasonable price.

ViewSonic Model	CRT Size/ Viewable	Dot Pitch	Maximum Resolution	TCO Low Radiation	Bezel Integrated Speakers
15GA	15/14.0	0.27	1280 x 1024	YES	YES
G653	15/13.8	0.28	1280 x 1024	TCO '95	
G771	17/16.0	0.27	1280 x 1024	YES	
G773	17/16.0	0.26	1280 x 1024	TCO '95	
GS771*	17/16.0	0.27	1280 x 1024	TCO '95	
GA771	17/16.0	0.27	1280 x 1024	TCO '95	YES
GT775	17/16.0	0.25†	1600 x 1200	YES	
G790	19/18.0	0.26	1600 x 1280	TCO '95	
G800	20/18.4	0.28	1600 x 1280	YES	
G810	21/20.0	0.25	1600 x 1280	YES	
29GA	29/27.0	0.75**	1280 x 1024		YES

* Short Depth Monitor ** Stripe Pitch † Aperture Grille

Professional Series

These monitors fulfill the needs of the most discriminating user. The Professional Series is ideal for professional applications ranging from CAD/CAM/CAE to professional desktop publishing and graphic design.

ViewSonic Model	CRT Size/ Viewable	Dot Pitch/ Aperture Grille Pitch	Maximum Resolution	TCO Low Radiation
P655	15/14.0	0.27	1280 x 1024	TCO '95
P775	17/16.0	0.25	1600 x 1280	TCO '95
PT771	17/16.0	0.25†	1600 x 1200	TCO '95
PT775	17/16.0	0.25†	1600 x 1280	TCO '95
PS790*	19/18.0	0.25	1600 x 1280	TCO '95
P810	21/20.0	0.25	1600 x 1280	TCO '95
PT813	21/20.0	0.28†	1600 x 1280	TCO '95
P815	21/20.0	0.25	1800 x 1440	TCO '95

†Aperture Grille *Short Depth Monitor

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Selection, quality and support. The reason ViewSonic consistently provides award winning attributes is our commitment and focus on Display Technology™, not products ranging from microwave ovens to computer systems like many of our competitors. This focus on displays has resulted in our leadership in the branded 17" (various viewables) and 21" (various viewables) monitor markets in just a short seven years.† We continue to develop display products that make computing better. If you're ready to buy, choose from the company that specializes only in displays...ViewSonic.

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800-863-3282	800-258-2088	800-339-4239	800-COMPUSA	800-811-2022

Product Information (800) 888-8583; Ask for Agent 81232

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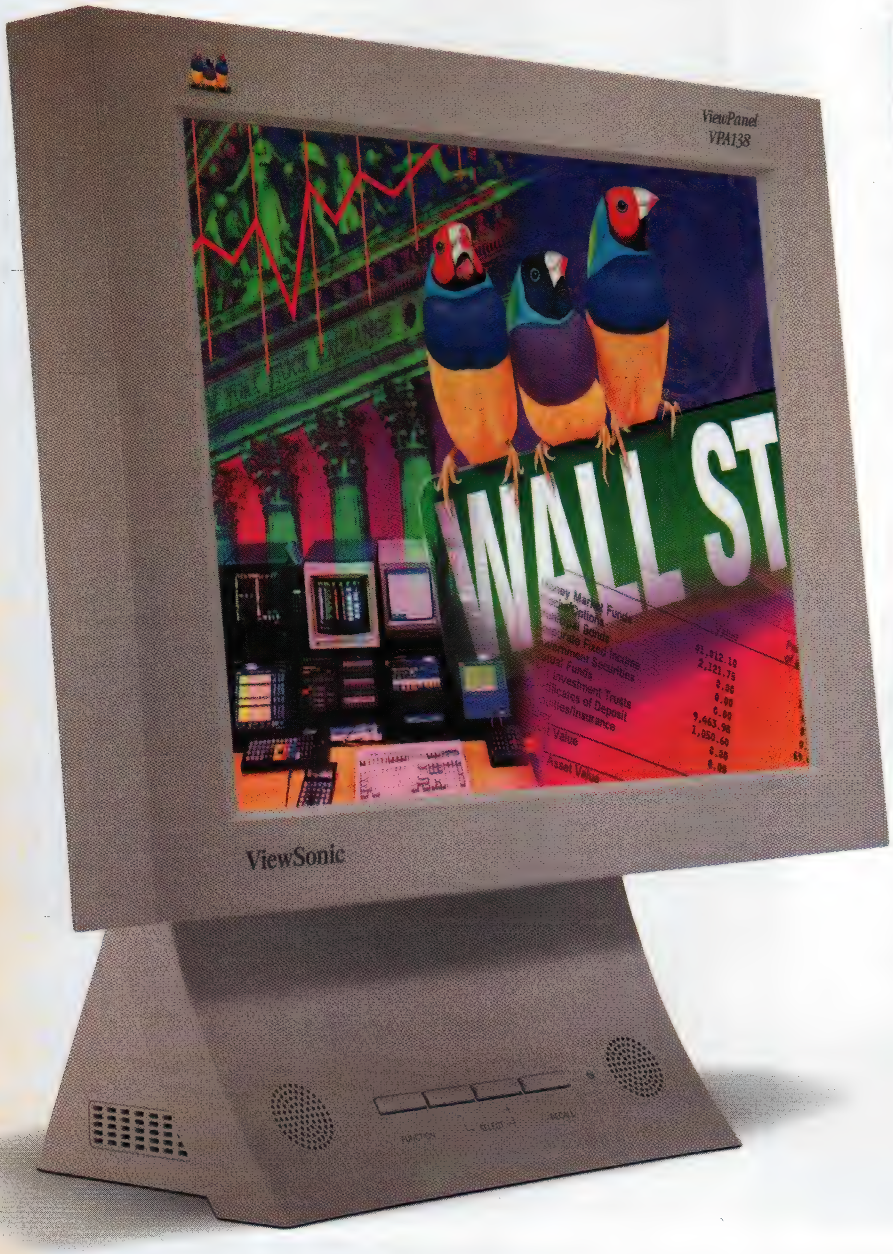
**The 29GA has a one year limited warranty on CRT, parts and labor. Corporate names and trademarks stated herein are the property of their respective companies. † According to Stanford Resources Q3 1997 Monitrak Report.

ViewSonic® ViewPanel® LCD Displays:
Big on Quality. Big on Value.
Small on Space.

ViewPanels are available and affordable.

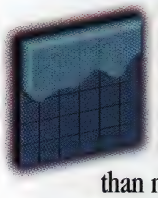
Lean and light at only 6" in depth, all the models in the ViewSonic ViewPanel family display sharp, brilliant images using up to 75% less space on your desktop. However, don't let the economical size of these displays fool you. Even text-heavy forms are viewed with an eye-pleasing 1024 x 768 true XGA resolution. ViewSonic's commitment to bringing revolutionary technology to the market makes owning these superior displays within reach. The multimedia-ready ViewPanel VPA138 with a rotatable 13.8" viewable image area and bezel integrated speakers is remarkably affordable.



Enjoy portrait or landscape viewing.

Full-page viewing capabilities combined with thin, pivoting displays take ViewSonic ViewPanel models VPA138, VPA145 and VPA150 to the head of the class. The page height in portrait mode makes these ViewPanels the best choice for legal, government or medical applications. With these models, you can view an 8½" x 11" document in its entirety. Free Perfect Portrait™ software included with the VPA138, VPA145 and VPA150 enables you to shift display modes instantly.

A slim alternative to 17" and 19" monitor.



Liquid Crystal Display-or LCD-displays use the most advanced true color Display Technology.™ The fluid liquid crystals create naturally brighter and more saturated color than most conventional CRT monitors. When viewed at 1024 x 768 resolution the ViewPanel image is much cleaner and sharper, resulting in easier to read text. In portrait mode, ViewPanels make a great alternative to 17" or 19" conventional monitors by allowing you to see an entire 8½" x 11" page. Beyond weighing less, the thin flat screen takes up much less space, up to 75% less than some 17" (various viewables) CRT monitors–that gives you more work area. Liquid crystal displays also use less power and emit less heat for even more value.

ViewSonic Model	Screen Viewable	90° Pivot	Maximum Resolution	OnView® Digital Controls	Bezel Integrated Speakers
VP140	14.0		1024 x 768	YES	
VPA138	13.8	YES	1024 x 768	YES	YES
VPA145	14.5	YES	1024 x 768	YES	YES
VPA150	15.0	YES	1024 x 768	YES	YES

- True XGA 1024 × 768 resolution.
- TFT Active Matrix with LuCiD™ Technology.
- Free PerfectPortrait™ software enables landscape or full-page portrait display modes.
- 2.5" Profile for space saving desktop or wall mount installation. (Available for VP140 only)
- Comprehensive and user friendly OnView® controls with ViewMatch® color.
- Warranty: 3-year parts and labor; 1-year backlight.

Midwest Micro	800-204-0328
PC&Mac Connection®	800-800-4546
NECX Direct	800-808-3375 www.necx.com
DellWare®	800-449-3355
MacWarehouse®	800-255-6227
Insight	800-249-4828
Global	800-829-0787
ClubMac®	800-258-2622
USA★Flex	800-USA-FLEX www.usaflex.com

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ANY
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ViewBook™ Projector

The PJL802 ViewBook is ViewSonic's first SVGA projector with a built in PC card slot–revolutionizing the way presentations are made. You no longer need to travel with your PC. Now your presentations can be stored on a pocket-sized memory card and simply inserted into the PJL802 at "show-time." It's perfect for delivering sales presentations on the road; you just plug it in and turn it on. Additionally, the backlit wireless remote control with built-in mouse provides you flexibility and total control. The new PJL802 makes it easy to show off your bright ideas anywhere.

ViewSonic's PJL802 is perfect for corporate presentations, sales pitches and training on location. This fully self-contained portable presentation solution boasts a compact footprint close to that of a notebook and weighs only 11 pounds. In addition to a built-in PC card slot, the PJL802 is also one of the first compact projectors to use three technologically advanced 0.9" active LCD panels to display bright, crisp images in a true SVGA resolution of 800 x 600 or a compressed XGA resolution of 1024 x 768. The 150 watt DC metal halide lamp delivers 400 ANSI lumens* and its 200:1 contrast ratio displays brilliant images, even in well lighted rooms. It comes with a remote control and is *Plug & Play+* certified for use with Windows® 95 for simple plug and project installation. Use the ultra portable PJL802 at the office or on the road–with or without a computer!

PJL802

The only projectors that are Windows® 95 Certified.

Designed for Microsoft Windows 95

Plug & Play+

Plug it in, turn it on and you're ready to present.

Office Theater™ Projectors

PJ800

The brightest way to make a presentation. This high quality, affordably priced 3-Panel LCD projector is perfect for Fortune 500 boardrooms, corporate or government presentations and educational lectures. With little more to do than plug it in and turn it on, the PJ800 was designed to be uncomplicated and easy to use. It offers an average 550 ANSI lumens* for ultra-high brightness and color uniformity, 200:1 contrast ratio and a full palette of 16.7 million colors. The PJ800 supports true 800 x 600 resolution or a compressed XGA resolution of 1024 x 768 and projects a crisp uniform image from 30" to 300". Its 260 watt DC metal halide lamp with extended life burns up to 3,000 hours. As with the PJL802, it comes with a wireless remote control allowing complete control of a presentation.

	ViewBook	Office Theater		
ViewSonic Model	PJL802	PJ800	PJ1000	
Brightness (ANSI Lumens)*	400	550	600	
Supported Resolutions	800x600	800x600	800x600	1152x864
	832x624	832x624	832x624	1280x960
	1024x768	1024x768	1024x768	1280x1024
Built-In Speaker	Yes	Yes	Yes	
Remote Control	Yes	Yes	Yes†	
Weight (lbs)	11.0	21.6	20.0	

† Comes with built-in laser pointer *Peak brightness +/- 10% may vary depending on room brightness and lamp condition.

ViewBook PJL802
ViewSonic

$4795 ESP
PJL802

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Product Information (800) 888-8583; Ask for Agent 81232
Internet: www.viewsonic.com

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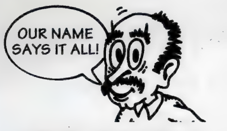
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Readers have voted us to our third consecutive readers choice award. PC COMPUTING said "The name says it all. Buying a hard drive? Call here first."

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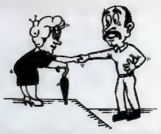

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Our entire staff is friendly and helpful, we sincerely appreciate your business.

SATISFIED CUSTOMERS

We satisfy our customers, most of our business is from repeat customers. Rest assured we will satisfy you as well.

	Speed	RPM	Model	Brand	Mfr Wty	Price
Ultra SCSI *(Add an Adaptec A2940U PCI Ultra SCSI controller for $180)*						
2160MB	11ms	7200	ST32272N	Seagate	5	$329
2151MB	10ms	5400	FB32100S	Quantum	3	$209
2275MB	8ms	7200	VK32275S	Quantum	5	$235
2670MB	8ms	7200	WDE2170N	Western Digital	5	$329
3228MB	10ms	5400	FB33200S	Quantum	3	$240
4310MB	10ms	5400	FB34300S	Quantum	3	$275
4330MB	8.5ms	5400	IDM34330N	IBM	5	$289
4360MB	8ms	7200	WDE4360N	Western Digital	5	$489
4550MB	7.5ms	7200	IDM34560N	IBM	5	$469
4550MB	8ms	7200	ST34555N	Seagate	3	$309
4550MB	8ms	7200	VK34550S	Quantum	5	$340
4550MB	8ms	7200	XP34550S	Quantum	5	$469
4550MB	8ms	7200	ST34572N	Seagate	5	$479
4550MB	7.5ms	10,000	ST34501N	Seagate	5	$579
4550MB	7.1ms	7200	ST34573N	Seagate	5	$609
6448MB	10ms	5400	FB36400S	Quantum	3	$355
8455MB	9.5ms	5400	FB38400S	Quantum	3	$455
9100MB	7.5ms	5400	IBM39130N	IBM	5	$709
9100MB	8ms	7200	XP309100S	Quantum	5	$799
9100MB	8ms	7200	ST19171N	Seagate	5	$729
9100MB	8ms	10,000	ST19101N	Seagate	5	$939
9105MB	8ms	7200	WDE9100N	Western Digital	5	$735
9190MB	7.1ms	7200	ST39173N	Seagate	5	$609
18200MB	8ms	7200	XP318200S	Quantum	5	$1299
18200MB	7.5ms	7200	IDGHS18Z	IBM	5	$1729
18200MB	7.1ms	7200	ST118273N	Seagate	5	$1569
23300MB	14ms	5400	ST423451N	Seagate	5	$1669
Ultra WIDE SCSI *(Add an Adaptec PCI Ultra Wide SCSI controller for $199)*						
2160MB	8ms	7200	ST32272W	Seagate	5	$359
2275MB	8ms	7200	VK32275W	Quantum	5	$239
2275MB	8ms	7200	XP32275W	Quantum	5	$199
2670MB	8ms	7200	WDE2170W	Western Digital	5	$329
4330MB	8.5ms	5400	IBM34330W	IBM	5	$299
4360MB	8ms	7200	WDE4360N	Western Digital	5	$489
4550MB	7.5ms	7200	IBM34560W	IBM	5	$469
4550MB	8ms	7200	ST34555W	Seagate	3	$349
4550MB	8ms	7200	VK34550W	Quantum	5	**$339**
4550MB	7.5ms	7200	M3045W	Fujitsu	5	$399
4550MB	8ms	7200	VK304550W	Quantum	5	$439
4550MB	8ms	7200	ST34572W	Seagate	5	$479
4550MB	8ms	7200	XP34550W	Quantum	5	$469
4550MB	7.5ms	10,000	ST34501W	Seagate	5	$599
9100MB	8ms	7200	VK309100W	Quantum	5	**$679**
9100MB	7.5ms	5400	IBM39130W	IBM	5	$689
9100MB	7.5ms	7200	M3091W	Fujitsu	5	$679
9100MB	8ms	7200	XP39100W	Quantum	5	$729
9100MB	8ms	7200	ST19171W	Seagate	5	$769
9100MB	8ms	10,000	ST19101W	Seagate	5	$979
9100MB	6.3ms	10,020	IDVGS9U	IBM	5	$1009
9105MB	8ms	7200	WDE9100W	Western Digital	5	$735
18200MB	8ms	7200	M3182W	Fujitsu	5	$1389
18200MB	7.5ms	7200	IDGHS18U	IBM	5	$1749
18200MB	7.6ms	7200	ST39173W	Seagate	5	$NEW!
23300MB	14ms	5400	ST423451W	Seagate	5	$1689
Ultra WIDE SCSI A/V						
9105MB	8ms	7200	WDE9100WAV	Western Digital	5	$799
Ultra-2 SCSI New - 80MB/sec! *(Add an Adaptec PCI Ultra-2 SCSI controller for $399)*						
4550MB	5,4ms	10,000	ST34502LW	Seagate	5	$779
4550MB	7.1ms	7200	ST34573LW	Seagate	5	$639
4550MB	8ms	7200	VK304550LW	Quantum	5	$439
9100MB	5.4ms	10,000	ST39102LW	Seagate	5	$1095
9100MB	8ms	7200	VK309100LW	Quantum	5	**$679**
9100MB	8ms	7200	XP309100LW	Quantum	5	$799
9190MB	7.1ms	7200	ST39173LW	Seagate	5	$849
18200MB	8ms	7200	XP318200LW	Quantum	5	$1299
18200MB	7.1ms	7200	ST118273LW	Seagate	5	$1599
18200MB	5.7ms	10,000	ST118202LW	Seagate	5	$1899
Ultra Wide Differential SCSI						
2160MB	8ms	7200	ST32272WD	Seagate	5	$419
4550MB	8ms	7200	ST34572WD	Seagate	5	$609
2160MB	7.5ms	10,000	ST34501WD	Seagate	5	$685
9100MB	8ms	7200	ST19171WD	Seagate	5	$859
9100MB	8ms	10,000	ST19101WD	Seagate	5	$1089
23200MB	13ms	5400	ST423451WD	Seagate	5	$1759
SCA Ultra Wide Single Connector Attachment						
2160MB	8ms	7200	ST32272WC	Seagate	5	$379
4550MB	8ms	7200	ST34572WC	Seagate	5	$549
4550MB	7.5ms	10,000	ST34501WC	Seagate	5	$639
9100MB	8ms	7200	ST19171WC	Seagate	5	$789
9100MB	8ms	10,000	ST19101WC	Seagate	5	$1039
SCA Ultra-2 Single Connector Attachment						
4550MB	7.1ms	7200	ST34573LC	Seagate	5	$649
4550MB	5.4ms	10,000	ST34502LC	Seagate	5	$789
9100MB	5.4ms	10,000	ST39102LC	Seagate	5	$1119
9190MB	7.1ms	7200	ST39173LC	Seagate	5	$869
18200MB	7.1ms	7200	ST118273LC	Seagate	5	$1629
18200MB	5.7ms	10,000	ST118202LC	Seagate	5	$1939
FC - AL Fibre Channel - Arbitrated Loop *(Add an Adaptec FC controller for $789)*						
4550MB	7.1ms	7200	ST34573FC	Seagate	5	$649
4550MB	7.5ms	10,000	ST34501FC	Seagate	5	$679
4550MB	5.4ms	10,000	ST34502FC	Seagate	5	$789
9100MB	8ms	7200	ST19171FC	Seagate	5	$849
9100MB	8ms	10,000	ST19101FC	Seagate	5	$1079
9100MB	5.4ms	10,000	ST39102FC	Seagate	5	$1119
9190MB	7.1ms	7200	ST39173FC	Seagate	5	$869
18200MB	7.1ms	7200	ST118273FC	Seagate	5	$1629
18200MB	5.7ms	10,000	ST118202FC	Seagate	5	$1939

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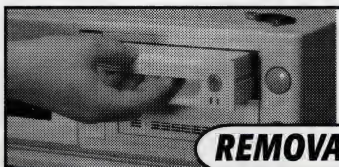
Ultra IDE *(Add a PCI Ultra IDE controller for $55)*						
2100MB	10ms	5400	MP3021U	Fujitsu	3	$139
2110MB	11ms	5400	ST32110A	Seagate	3	$145
2111MB	12ms	4500	ST32122A	Seagate	3	$135
2111MB	9.5ms	5400	AC12100	Western Digital	3	$148
2151MB	10ms	5400	FB32100A	Quantum	3	$145
2520MB	11ms	5400	ST32520A	Seagate	3	$154
3200MB	10ms	5400	MP3032U	Fujitsu	3	$163
3221MB	11ms	5400	ST33221A	Seagate	3	$179
3227MB	12ms	4500	ST33232A	Seagate	3	$168
3228MB	10ms	5400	FB33200A	Quantum	3	$179
3240MB	10ms	5200	M83240D	Maxtor	3	$174
3249MB	11ms	5400	AC23200	Western Digital	3	$159
4018MB	12ms	4000	BF4000A	Quantum	3	$189
4520MB	9.5ms	7200	ST34520A	Seagate	3	$Call
4303MB	12ms	4500	ST34342A	Seagate	3	$186
4304MB	12ms	5400	AC34300	Western Digital	3	$187
4310MB	10ms	5400	FB34300A	Quantum	3	$199
4320MB	10ms	5200	M84320D	Maxtor	3	$188
4321MB	11ms	5400	ST34321A	Seagate	3	$199
4370MB	10ms	5400	MP3043U	Fujitsu	3	$187
5160MB	12ms	5400	AC35100	Western Digital	3	$206
5250MB	10ms	5400	MP3052U	Fujitsu	3	$213
6028MB	12ms	4000	BF6000A	Quantum	3	$239
6400MB	9.5ms	5400	AC36400	Western Digital	3	$259
6448MB	10ms	5400	FB36400A	Quantum	3	$255
6450MB	9.5ms	5400	ST36451A	Seagate	3	$245
6480MB	10ms	5400	MP3064A	Fujitsu	3	$246
6480MB	10ms	5200	M86480D	Maxtor	3	$240
6530MB	9.5ms	7200	ST36530A	Seagate	3	$Call
6531MB	11ms	5400	ST36531A	Seagate	3	$259
8037MB	12ms	4000	BF8000A	Quantum	3	$259
8400MB	10ms	5200	M88400D	Maxtor	3	$319
8455MB	9.5ms	5400	FB38400A	Quantum	3	$339
8606MB	10ms	5400	ST38641A	Seagate	3	$350
9140MB	9.5ms	7200	ST39140A	Seagate	3	$Call
12056MB	12ms	4000	BF12000A	Quantum	3	$349
2 1/2" Drives for Laptop						
Drive	**Height**	**RPM**	**Item#**	**Brand**	**Mfr Wty**	**Price**
1440MB	13ms	4200	MK1401MAV	Toshiba	1	$189
2100MB	12ms	4464	DK225A21	Hitachi	3	$189
2167MB	13ms	4200	MK2104MAV	Toshiba	1	$199
3200MB	12ms	4000	DK226A32	Hitachi	3	$279
3240MB	13ms	4000	DT23240	IBM	1	$409
3250MB	13ms	4200	MK3205MAV	Toshiba	1	$289
4000MB	12ms	4000	DK227A41	Hitachi	3	$439
4000MB	13ms	4200	MK4006MAV	Toshiba	1	$419
4090MB	13ms	4000	DT24090	IBM	1	$519
5000MB	12ms	4000	DK228A50	Hitachi	3	$529
5120MB	12MS	4900	DP25120	IBM	1	$639



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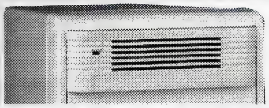

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The Perfect Choice for DVD! Hitachi Drive reads all types of CDs including CD-R, and CD-RW. Reads CDs at 20X, 90ms. Acclaimed Smart Storage Kit with CineMaster MPEG-2 decoder card (SSSDVD2KIT) **$279**

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SyQuest 230MB • 3 1/2", 13.5ms, 135MB compat. ***1 FREE DISK***

Ext. SCSI (EZ230S)	$146	Ext Parallel (EZ230PP)	$146
Int. IDE (EZ230A)	$146		

SyQuest 1GB • 3 1/2" ***1 FREE DISK***

Int IDE (SPARQ1)	$195	Ext Parallel (SPARQ1PP)	$195

1.5GB SyJet • 3 1/2", <12ms ***1 FREE DISK in box***

Int. SCSI (SYJET1.5PCI)	$295	Int. IDE (SYJET1.5PCA)	$295
Ext SCSI (SYJET1.5PCX)	$295	Parallel Ext (SYJET1.5PP)	$295

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24X	Mitsumi	CRMCFX24X	90	256K	$79	$109
24X	Toshiba	XM6102B	85	256K	$81	$111
24X	NEC	CDR1800	100	128K	$81	$111
32X	Teac	CD532E	84	128K	$89	$119
32X	Toshiba	XM6202B	80	256K	$89	$119
32X	Mitsumi	CRMCFX32X	85	256K	$90	$120
32X	Pioneer	DRU504	70	128K	$95	$125
32X	NEC	CDR1900	80	128K	$95	$125

IDE CD CHANGERS

Speed	Brand	Model	ms	# Disks	Int	Kit
8X	NEC	CDR4X8	165	4	$89	$119
16X	Nakamichi	MJS16A	130	5	$149	$179

SCSI CD ROM		Model	ms	Buffer	Int	Ext
16X	NEC	CDR1610	100	128K	$99	$189
20X	Plextor	PX20TS	95	512K	$185	$275
24X	NEC	CDR1810	85	128K	$109	$199
32X	Teac	CD532S	85	128K	$119	$209
32X	Toshiba	XM6201B	85	128K	$119	$209
32X	NEC	CDR1910	85	128K	$119	$209
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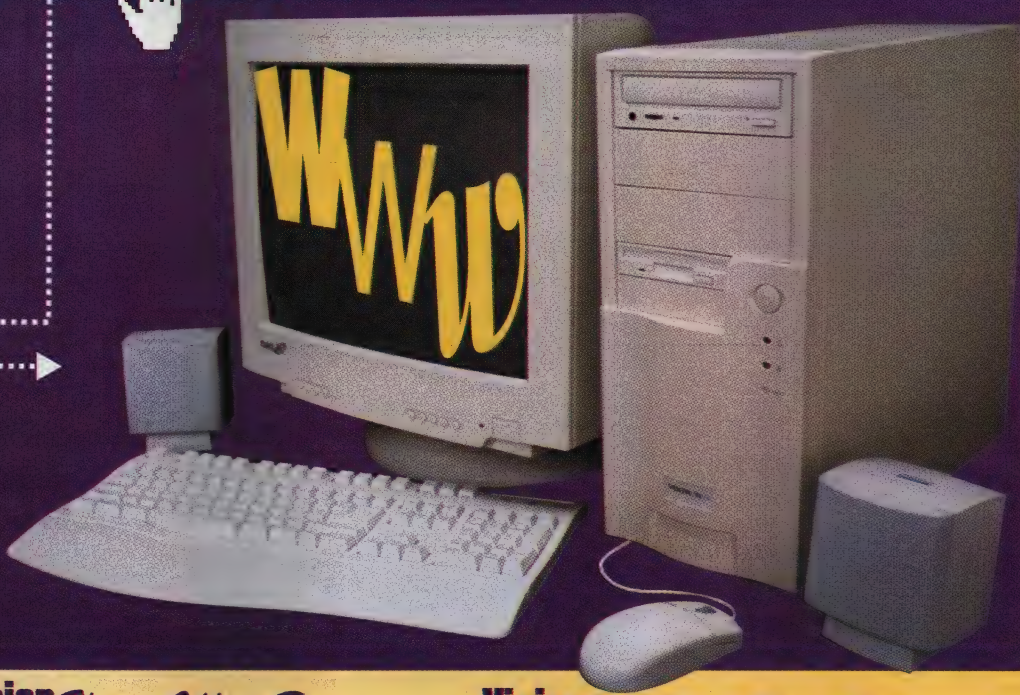

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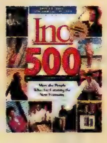

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- MS Windows® 95 with MS Plus! (NT 4.0 + $99)
- **Iomega Zip 100MB IDE Internal Drive**
- Webster's® Encyclopedia Multimedia CD

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Ultra SCSI PowerPro SC6/300

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- **200MHz Pentium® Processor with MMX™ Technology**
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- 32MB SDRAM Memory / 512K L2 Pipeline Cache
- 3.2GB EIDE Hard Drive
- 20X CD-ROM & 3.5" Floppy Drive
- PCI Windows Graphics Accelerator (2MB VRAM)
- Wavetable Stereo 3D Sound, 2 Spkrs, & Microphone
- Parallel, Serial, Infrared, ZoomVideo, & **USB** Ports
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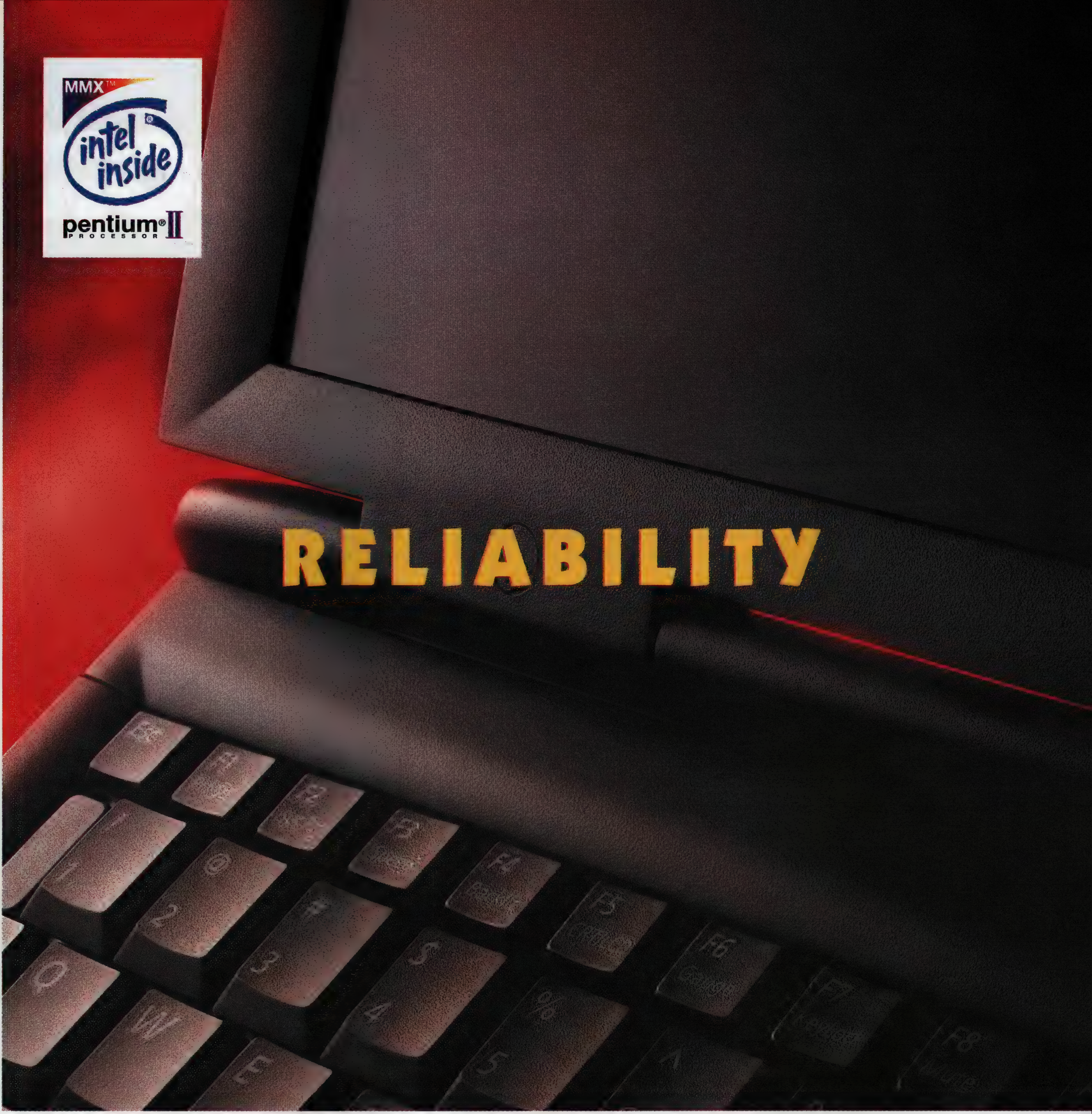
PCMCIA 33.6 / 56K FaxModem Card $80 / $120



12.1" SVGA MegaCD-Note

- **200MHz Pentium® Processor with MMX™ Technology**
- **12.1"** SVGA **800x600** TFT Active Display
- **Intel 430TX Mobile Chipset** & 512K L2 Cache
- 32MB SDRAM Memory / 512 L2 Pipeline Cache
- 3.2GB EIDE Hard Drive
- 20X CD-ROM & 3.5" Floppy Drive
- PCI Windows Graphics Accelerator (2MB VRAM)
- Wavetable Stereo 3D Sound, 2 Spkrs, & Microphone
- Parallel, Serial, Infrared, ZoomVideo, & **USB** Ports
- Type I / II / III PCMCIA & CardBus Slot
- Smart **Lithium Ion** Battery & AC Pack
- EZ TrackPad Pointing Device
- Microsoft Windows® 95 and MS Plus!
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(with system purchase only)

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■ SoundBlaster® AWE64™ Wavetable Sound Card	$70
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■ Ethernet 10BaseT Combo Controller	$40

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■ 17" to 15" XGA 1024x768 Pivot LCD Monitor	$1275

	Comtrade MegaCD-Note	Dell® Inspiron™ 3000 M200ST	Gateway Solo™ 2300LS	Micron™ TransPort™ XKE
Intel Mobile Chipset	Yes	Yes	Yes	Yes
Pentium® Processor with MMX™ Technology	200MHz	200MHz	200MHz	233MHz
Display Size	13.3" XGA TFT	12.1" SVGA TFT	12.1" SVGA TFT	13.3" XGA TFT
Memory Size	32MB	32MB	32MB	32MB
Hard Drive Size	3.2GB	3.2GB	3GB	1.6GB
CD-ROM	Built-In 20X	Modular 24X Var.	Modular 7X / 11X	Built-In 20X
Battery Type	Smart Lithium Ion	Smart Lithium Ion	Smart Lithium Ion	Information Not Avail.
Price	$2045	$2199	$2699	$3299

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- Altec ACS-495 Full Dolby Surround Sound Speakers with Subwoofer
- 56K Capable** U.S.R. x2 WinModem
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- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
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- Altec ACS-90 Speakers
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- MS Windows 95/IE/IntelliMouse
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- Dell Comfort Key Keyboard
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- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 with Money 98
- Intel LANDesk Virus Protect
- Simply 3D and MGI Video Wave Publisher
- ATX Tower Style
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- Ensoniq Audio PCI Wave Table Sound Card
- 56K Fax/Modem with Voice
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 with Money 98
- Intel LANDesk Virus Protect
- ATX Tower Style
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266 MHZ Intel PENTIUM II WITH MMX 1455

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266MHZ PENTIUM II WITH MMX TECHNOLOGY

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- Intel 440 LX AGPSet, 512KB Integrated L2 Cache
- Intel AL440LX Main Board with Two USB Ports
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy Drive
- Ensoniq Audio PCI Wave Table Sound Card
- 56K Fax/Modem with Voice
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 with Money 98
- Intel LANDesk Virus Protect
- Simply 3D and MGI Video Wave Publisher
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- ▲ *Upgrade to 21" .25 CyberVision add $245*
- ▲ *Legend Video Conferencing Kit $129*

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COMPUTER SHOPPER

"Windows Magazine rated the Legend Generation™ one of the top five Pentium II systems on the market today.
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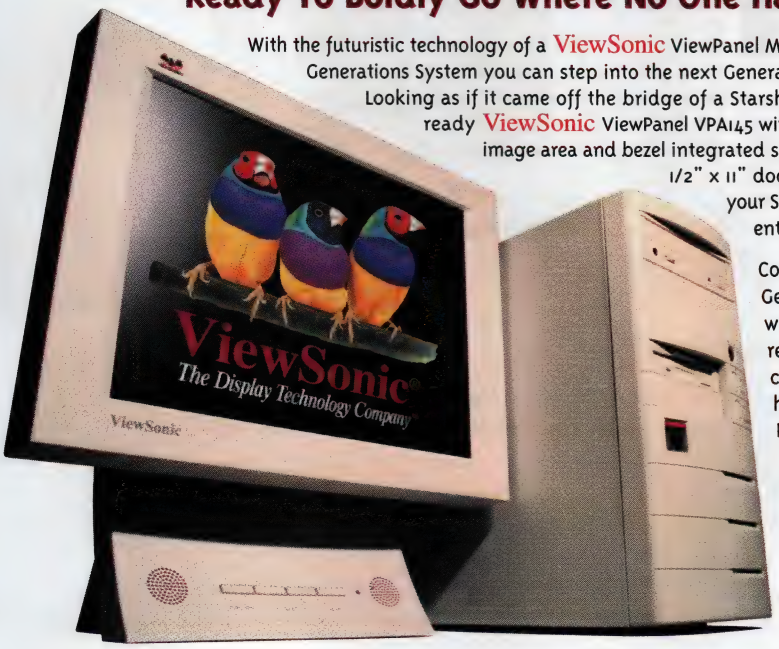

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- Intel AL440LX Main Board with Two USB Ports
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- Yamaha OPL3-SA3 Audio
- 3Com PCI 10/100 Ethernet Card or 56k Modem
- Microsoft Windows 95 & Internet Explorer 4.0
- Intel LANDesk Client Manager Software
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Satellite Pro 480CDT	233Mhz MMX	4.0GB	32/160 MB RAM	12.1" SVGA TFT	33.6K Fax/Data/Voice	10X CD-ROM	3395	132 per month
Portege 320CT	266Mhz MMX	4.0GB	32/96 MB RAM	10.4" SVGA TFT	56K DSVD	Optional	3585	139 per month
Tecra 520CDT	166Mhz MMX	4.0GB	32/160 MB RAM	12.1" SVGA TFT	33.6K Fax/Data/Voice	10X CD-ROM	3095	120 per month
Tecra 550CDT	266Mhz MMX	4.0GB	32/160 MB RAM	12.1" XGA TFT	56K DSVD	20X CD-ROM	3775	146 per month

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TravelPro 2500CS	233Mhz MMX	2.1GB	32/128 MB RAM	12.1" SVGA DSTN	56K Modem	24X CD-ROM	1695	66 per month
TravelPro 2500CT	233Mhz MMX	2.1GB	32/128 MB RAM	12.1" SVGA TFT	56K Modem	24X CD-ROM	1975	77 per month
TravelPro 2500CX	233Mhz MMX	3.1GB	32/128 MB RAM	13.3" XGA TFT	56K Modem	24X CD-ROM	2275	88 per month
TravelPro 2020CX	200Mhz MMX	2.1GB	32/80 MB RAM	13.3" XGA TFT	33.6K Modem	20X CD-ROM	2695	105 per month
TravelPro 2030CX	200Mhz MMX	3.1GB	48/80 MB RAM	13.3" XGA TFT	33.6K Modem	16X CD-ROM	2295	89 per month
TravelPro 2040CX	233Mhz MMX	3.1GB	80/80 MB RAM	13.3" XGA TFT	33.6K Modem	20X CD-ROM	2695	105 per month
Rodeo 3015ECX	233Mhz MMX	2.1GB	32/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3295	128 per month
Rodeo 3020ECX	233Mhz MMX	3.1GB	64/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3595	139 per month
Rodeo 3030ECX	233Mhz MMX	4.0GB	64/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3655	142 per month
Rodeo 3035ECX	266Mhz MMX	3.1GB	32/128 MB RAM	13.3" XGA TFT	56K Modem	24X CD-ROM	2975	115 per month
Rodeo 3040ECX	266Mhz MMX	4.0GB	64/128 MB RAM	14.1" XGA TFT	56K Modem	24X CD-ROM, Zip Drive	3695	143 per month
Rodeo 5000ECX	233Mhz MMX	3.1GB	32/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3355	130 per month
Rodeo 5020ECX	233Mhz MMX	4.0GB	64/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3655	142 per month
Rodeo 5030ECX	266Mhz MMX	4.0GB	64/128 MB RAM	14.1" XGA TFT	56K Modem	20X CD-ROM	3855	150 per month

All notebooks come with a 3 Year Warranty.

Warranty: Legend Computers are fully warrantied from defects for 3 years, including FREE LIFETIME LABOR. The first warranty year includes FREE ON-SITE SERVICE in your home or office 30 days after invoice date. Shipping and handling charges are non-refundable. No returns for refund or credit after 30 days. Price & availability of products is subject to change without notice. Not responsible for photo or typographical errors. All returns must be sent freight pre-paid by the customer and be in resalable condition. Purchase orders with credit approval only. Call for full details.

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266MHZ CELERON WITH MMX TECHNOLOGY

$1245

Business Lease $48 month

NEW!!

- 32MB SDRAM Memory
- 3.2GB Ultra ATA Hard Drive
- 15" .28 CyberVision Monitor (13.8" Viewable)
- AGP 4MB ATI Xpert XL Video Adapter
- Intel 440 LX AGPSet
- Intel AL440LX Main Board with Two USB Ports
- 32X Toshiba CD-ROM
- 3.5" 1.44MB Floppy Drive
- 3D Stereo Audio Card and Microphone
- 3Com PCI 10/100 Ethernet Card or 56k Modem
- Microsoft Windows 95 & Internet Explorer 4.0
- Intel LANDesk Virus Protect
- ATX Tower Style
- 3 Button Ergonomic Mouse
- 104 Key Windows Soft Keyboard
- Altec Lansing Speaker System
- 1 Year ON-SITE Service with
- 3 Year Parts Warranty, Free Lifetime Labor
- ▲ *Upgrade to 64MB SDRAM add $75*
- ▲ *Upgrade to 6.0GB Ultra ATA Hard Drive add $75*
- ▲ *Upgrade to 17" .27 CyberVision add $155*
- ▲ *Microsoft Office 97 Small Business Edition add $189*

LEGEND GENERATION LGP405
233MHZ PENTIUM II WITH MMX TECHNOLOGY

$1345

Business Lease $52 month

- 32MB SDRAM Memory
- 4.0GB Ultra ATA Hard Drive
- 15" .28 CyberVision Monitor (13.8" Viewable)
- AGP 8MB Matrox Productiva G100 Video Adapter
- Intel 440 LX AGPSet, 512KB Integrated L2 Cache
- Intel AL440LX Main Board with Two USB Ports
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy Drive
- Yamaha OPL3-SA3 Audio
- 3Com PCI 10/100 Ethernet Card or 56k Modem
- Microsoft Windows 95 & Internet Explorer 4.0
- Intel LANDesk Client Manager Software
- Intel LANDesk Virus Protect
- ATX Tower Style
- Microsoft IntelliMouse
- 104 Key Windows Soft Keyboard
- Altec Lansing Speakers
- 1 Year ON-SITE Service with
- 3 Year Parts Warranty, Free Lifetime Labor
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- ▲ *Upgrade to 6.0GB Ultra ATA Hard Drive add $45*
- ▲ *Upgrade to 17" .27 CyberVision add $155*
- ▲ *Microsoft Office 97 Small Business Edition add $189*

266 MHZ Intel PENTIUM II WITH MMX 1395

LEGEND GENERATION LGP1205
300MHZ PENTIUM II WITH MMX TECHNOLOGY

$1995

Business Lease $77 month

- 64MB SDRAM Memory
- 6.0GB Ultra ATA Hard Drive
- 17" .27 CyberVision Monitor (16.0" Viewable)
- AGP 8MB Matrox Productiva G100 Video Adapter
- 512KB Integrated L2 Cache
- Intel AL440LX Main Board with Two USB Ports
- Intel 440 LX AGPSet
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy Drive
- Yamaha OPL3-SA3 Audio
- 3Com PCI 10/100 Ethernet Card or 56k Modem
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Office 97 Small Business Edition
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- 3 Year Parts Warranty, Free Lifetime Labor
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266 MHZ Intel PENTIUM II WITH MMX 1895
333 MHZ Intel PENTIUM II WITH MMX 2145

LEGEND GENERATION LGP805
400MHZ PENTIUM II WITH MMX TECHNOLOGY

$2995

Business Lease $116 month

NEW! 400Mhz

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- AGP 4MB Intel Express 3D Video Adapter
- Intel 440 BX AGPSet, 512KB Integrated L2 Cache
- Intel SE440BX Main Board with Two USB Ports
- Iomega 100MB Internal Zip Drive
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy Drive
- Yamaha OPL3-SA3 Audio
- Crystal CS4236B Stereo Audio
- 3Com PCI 10/100 Ethernet Card or 56k Modem
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Office 97 Small Business Edition
- Intel LANDesk Client Manager Software
- Intel LANDesk Virus Protect
- ATX Tower Style
- Microsoft IntelliMouse
- 104 Key Windows Soft Keyboard
- Altec Lansing Speakers
- 1 Year ON-SITE Service with
- 3 Year Parts Warranty, Free Lifetime Labor
- ▲ *Upgrade to 12.0 Ultra ATA Hard Drive add $95*
- ▲ *Upgrade to 21" .25 CyberVision add $245*
- ▲ *Upgrade to Microsoft Office Pro 7.0 add $149*

333 MHZ Intel PENTIUM II WITH MMX 2655
350 MHZ Intel PENTIUM II WITH MMX 2795

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With our Corporate Series of Legend Generation™ computers, your business can have the latest in high performance, flexible, network designed desktop technology need to succeed in today's competitive world. Using Intel's Pentium II processor with MMX Technology™, Intel's Motherboard with AGPset, and a 100 Mbit LAN adapter, our corporate series not only exceeds the users expectations of power and ease of use, they also answer the needs of your Network Administrator. With necessary features like remote network management, advanced security and virus protection, the Legend Generation™ Corporate Series has the latest innovations to make your business grow.

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Intel InBusiness 4 Port Hub RJ45 10/100	$189
Intel InBusiness 8 Port Hub RJ45 10/100	$349
Intel InBusiness 8 Port Switch RJ45 10/100	$479
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Intel InBusiness 10/100 Print Server *easily share printers over a network*	$379
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HP SureStore CD-Writer Plus 2x/6x	$369
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Microsoft Office Pro 7.0	$349

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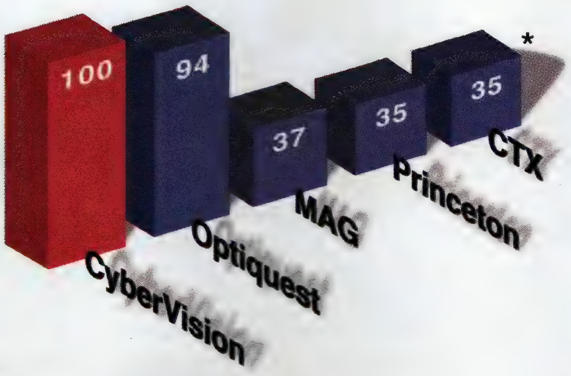

CyberVision displays have become the most popular monitor in advertised configurations in Computer Shopper.* And, while we're proud of our popularity, we're more committed than ever to remain focused on satisfying our customers' needs. From the beginning, CyberVision has concentrated on providing quality display products at an outstanding price. The fact that we became number one in the process, makes it all the better.

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With our commitment to quality, value and service, it's the smart choice to have a CyberVision display bundled with your system. Ask your dealer to upgrade your system to CyberVision standards.

INTRODUCING THE C-SERIES!

Feature	C40	C50	C52	C70	C72	C92
Screen Size (viewable)	14" (13.2" v)	15" (13.8" v)	15" (13.8" v)	17" (16.0" v)	17" (15.6" v)	19" (18.0" v)
Dot Pitch	.28mm	.28mm	.28mm	.27mm	.25mm	.26mm
Maximum Resolution	1024x768	1024x768	1280x1024	1280x1024	1280x1024	1600x1200
Refresh Rate/Resolution	80Hz/800x600	85Hz/800x600	87Hz/1024x768	87Hz/1024x768	87Hz/1024x768	79Hz/1280x1024
Low Radiation	Low	MPR-II	MPR-II	MPR-II	MPR-II	TCO'92
OSD	No	No	Yes	Yes	Yes	Yes

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- 24X SCSI CD ROM
- S3 Virge 2MB Video
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- Mid-Tower Case
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- 32X EIDE CD ROM
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- Lab Tech Speakers
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- Mid-Tower Case
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Millennium 266

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- 64MB SD RAM
- 32X EIDE CD ROM
- 56K Modem
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- 64 AWE Voice Sound Card
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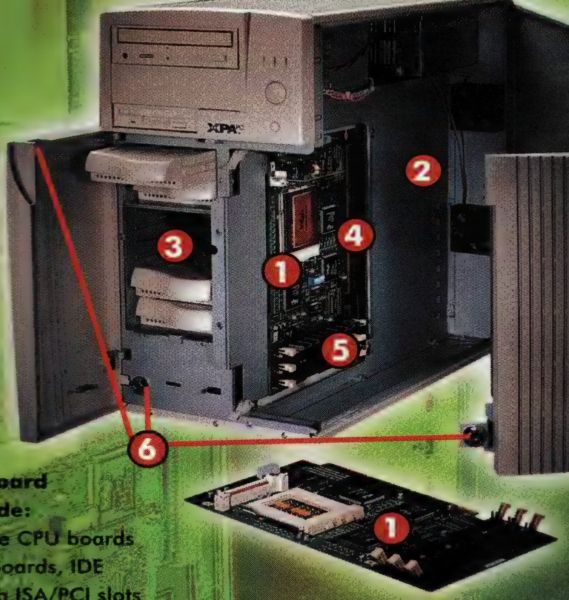

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5) system memory DIMM sockets
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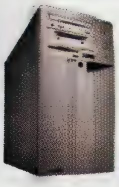
Cost of upgrading your PCs from a Pentium w/MMX to a Pentium II

Pentium w/MMX		Pentium II		Total Cost
				Conventional PC
$2000	+	$2000	=	$4000
				Image IQ PC
 $1800	+	$520*	=	$2320

Start with a Pentium® system and upgrade to a Pentium® II simply by purchasing a CPU board and processor. Adding memory, a video card, audio and fax boards is plug-it-in simple.

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*Prices of upgrade components may vary. **Savings of total cost of ownershipnay vary per system upgrade component and market prices.

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Powered by **Intel 350MHz Pentium® II Processor featuring MMX™ Technology**, this system includes a high definition 17" with .27 dot pitch color monitor with extra crisp clarity. This powered new generation DVD machine is also loaded with **PC Magazine Editors' Choice ATI ALL-IN-WONDER PRO 2X AGP MPEG-2** Graphics Card with amazing DVD quality video paired with 2-nd generation DVD-ROM Drive, 12GB Ultra ATA Hard Drive, 128MB of SDRAM Memory, SoundBlaster AWE64 Sound Card and rich sound 3D SubWoofer Surround Sound speaker system. With all these powerhouse of technology and performance at unbelievable price, this system is a clear winner for your today and tomorrow home and business computing.

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- Wave64 3-D Wave Table Full Duplex Sound Card
- 3D Surround Sound Speakers
- 56K Voice Fax/Modem
- 1.44MB Floppy Disk Drive
- 104-key Keyboard with Hand Rest and Mouse
- Microsoft Windows 95
- Lotus smartsuite 97 software
- ATX Mid Tower Case
- 3 Year Warranty

- 266MHz Intel Pentium® II Processor **$1259**

Upgrades

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- 17" .27dp Digital Color Monitor
- SoundBlaster AWE64 Wave Table Sound Card
- 3D Surround Sound Speakers with Powered SubWoofer
- 56K Voice Fax/Modem
- 1.44MB Floppy Disk Drive
- 104-key Keyboard with Hand Rest and Mouse
- Microsoft Windows 95
- Microsoft Office, Small Business Edition
- ATX Mid Tower Case
- 3 Year Warranty
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Upgrades

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"ATI ALL-IN-WONDER PRO ... PC Magazine Editors' Choice, December 2, 1997".

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- ◆ 17" .27dp Digital Monitor
- ◆ 2nd-Generation **DVD-ROM** Drive
- ◆ Wave-64 3-D Wave Table Full Duplex Sound Card
- ◆ 3D Surround Sound Speakers with Powered SubWoofer
- ◆ 56K Voice Fax/Modem
- ◆ 1.44 MB Floppy Disk Drive
- ◆ 104-key Keyboard with Hand Rest and Mouse
- ◆ Microsoft Windows 95
- ◆ Lotus SmartSuite 97 Software
- ◆ ATX Mid Tower Case
- ◆ 3 Year Warranty

◆ 233MHz Intel Pentium® II Processor	$1579
◆ 266MHz Intel Pentium® II Processor	$1729
◆ 300MHz Intel Pentium® II Processor	$1759

Multimedia Best Buy $1189

- ◆ 266MHz Intel Pentium® II Processor
- ◆ Intel 440LX PCI Chipset
- ◆ 32MB SDRAM Memory/512KB Secondary Cache
- ◆ 4.3GB EIDE Hard Drive
- ◆ **64-Bit AGP 4MB 3D** Graphics Card
- ◆ 15" .27dp Digital Color Monitor
- ◆ 32X EIDE CD ROM Drive
- ◆ Wave-64 3-D Wave Table Full Duplex Sound Card
- ◆ 3D Surround Sound Speakers
- ◆ 56K Voice Fax/Modem
- ◆ 1.44 MB Floppy Disk Drive
- ◆ 104-key Keyboard with Hand Rest and Mouse
- ◆ Microsoft Windows 95
- ◆ Lotus SmartSuite 97 Software
- ◆ ATX Mid Tower Case
- ◆ 3 Year Warranty

◆ 233MHz Intel Pentium® II Processor	$1139

DVD Best Buy Machine $1489

- ◆ 233MHz Intel Pentium® II Processor
- ◆ Intel 440LX PCI Chipset
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- ◆ Microsoft Windows 95
- ◆ Lotus SmartSuite 97 Software
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- ◆ Wave-64 3-D Wave Table Full Duplex Sound Card
- ◆ 3D Surround Sound Speakers
- ◆ 56K Voice Fax/Modem
- ◆ 1.44 MB Floppy Disk Drive & Mouse
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- ◆ Microsoft Windows 95
- ◆ Lotus SmartSuite 97 Software
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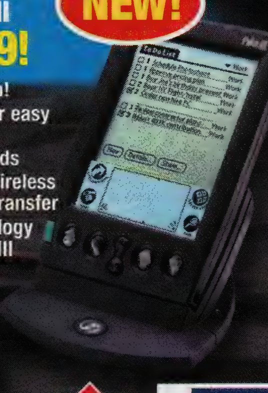

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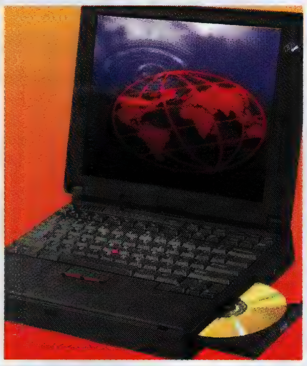

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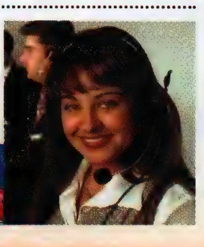

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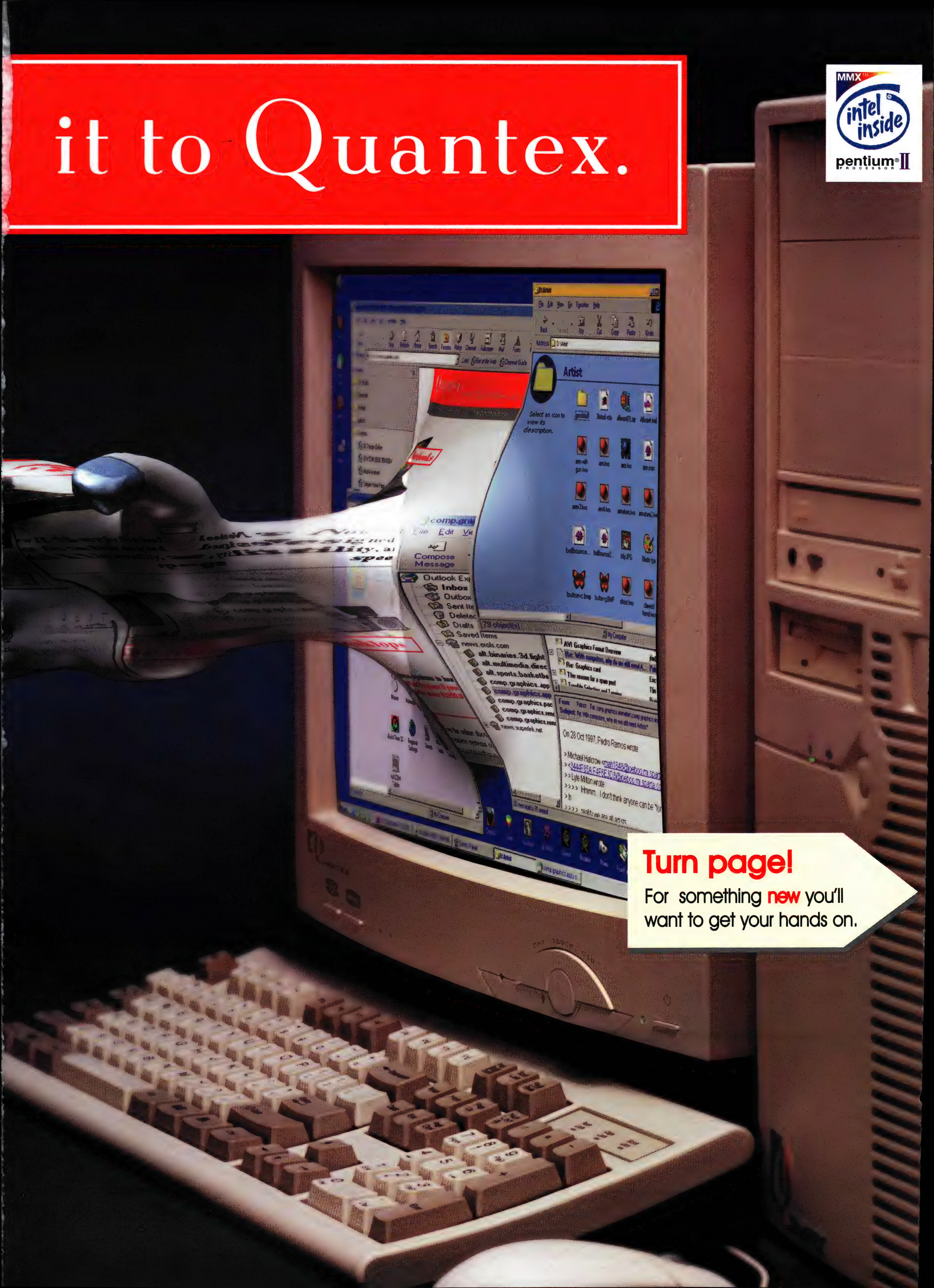
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- 32X Max EIDE CD-ROM Drive
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- K56flex protocol Fax/Modem* w/Voice Mail and Speakerphone
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- Ensoniq 32-Bit Wavetable Sound Card
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- 32X Max EIDE CD-ROM Drive
- Ensoniq 32-Bit Wavetable Sound Card
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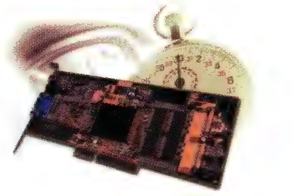

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- MS Windows '95 With MS Plus
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- 15" Digital Monitor (13.8" viewable)
- K56flex protocol Fax/Modem* w/Voice Mail and Speakerphone
- 32X Max EIDE CD-ROM Drive
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- 32MB SDRAM Memory / 512KB Secondary Cache
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- 128-bit Riva 128 3D AGP Graphics Card w/4MB SGRAM
- 17" Digital Monitor w/NEC ChromaClear CRT (15.9" viewable; .25 dp; 1600x1200 max. resolution)
- K56flex protocol Fax/Modem* w/Voice Mail and Speakerphone
- 32X Max EIDE CD-ROM Drive
- Ensoniq 32-Bit Wavetable Sound Card
- Altec-Lansing ACS-45 Speakers with subwoofer
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows '95 with MS Plus!
- Power Multimedia Software Bundle
- Microsoft Office '97 Small Business Edition
- 3-year limited warranty with 1-year On-Site Service**

QP6/233 SM-2x(with Pentium II processor). .	$1599
QP6/300 SM-2x(with Pentium II processor). .	$1749
QP6/333 SM-2x(with Pentium II processor). .	$1899

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- 300MHz Pentium® II Processor
- 64MB SDRAM Memory / 512KB Secondary Cache
- 6.4GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- 128-bit Riva 128 3D AGP Graphics Card w/4MB SGRAM
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- Internal 100MB Zip Drive w/one cartridge
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- 32X Max EIDE CD-ROM Drive
- Ensoniq 32-Bit Wavetable Sound Card
- Altec-Lansing ACS-45 Speakers with subwoofer
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows '95 with MS Plus!
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- 104-Key Keyboard with MS IntelliMouse
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QP6/333 SM-4x(with Pentium II processor). .	$2299
QP6/400 SM-4x(with Pentium II processor). .	$2699

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Upgrades: Zip 100MB Internal Drive w/one cartridge...$79 • MS Natural Keyboard Elite (upgrade from 104-key keyboard)...$39 • Microsoft Sidewinder 3D Joystick...$59 •HP Deskjet 692C Printer (with photo color kit)...$299 • HP Laserjet 6L Laser Printer...$379 *Note: All upgrades covered by manufacturer's warranty*

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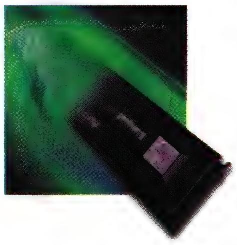


Exceeding all limits: 400MHz Pentium® II Processor

Grab hold of breathtaking multimedia performance

Once again, Quantex brings you the ultimate in high-performance multimedia in the QP6/400 SM-4x SE. The heart of this powerhouse is Intel's fastest, most powerful Pentium® II processor. At 400MHz, this race car system cranks out 20% more power than the 333MHz processor, delivering enhanced performance on all 3D, creativity and productivity applications. Plus, inside this unbelievable system is a whopping 128MB of quick SDRAM and a truly massive 11.5GB Ultra-ATA hard drive. This system delivers the maximum in intense multimedia experiences. And thanks to Quantex, all this power and speed can now be in your hands.

Experience the maximum in multimedia technology and power

Take the 2nd-Generation DVD-ROM drive for a spin -- and experience the dynamic multi-channel Dolby Digital audio and incredible graphics of full-length movies and state-of-the-art 3D games. The 128-bit Riva 3D AGP card accelerates your most extreme applications to the highest levels. Plus, the Altec Lansing ACS-490 speakers, with a deep subwoofer, deliver clear and powerful audio that's way beyond expectation. You've never experienced multimedia excitement like this before.

PC World

Eleven Best Buy Awards in
Six Months Prove the Value of Quantex

QP6/300 SM-3x (03/98) QP5/200 SM-1 (01/98) QP5/200 SM-1 (11/97)
QP6/300 SM-3x (02/98) QP6/300 SM-3x (12/97) QP5/200 PD-4 (10/97)
QP5/200 SM-1 (02/98) QP5/200 SM-1 (12/97) QP5/200 SM-1 (10/97)
QP6/300 SM-3x (01/98) QP5/233 SM-3 (12/97)

PC Computing

1997 Most Valuable Product Award
QP6/266 SM-4x

Beating out industry-leading competition, Quantex took home the esteemed 1997 *PC Computing* MVP Award. Quantex was awarded this honor after an exhaustive review of thousands of products, evaluating them for usability, performance, technology, innovation and value.

Eye-opening graphics with the awesome visual performance of Quantex monitors

19" Digital Monitor (18.1" viewable area)

Quantex puts in your hands the revolutionary image quality of our 19" digital monitors. The exceptional clarity, vivid colors and crisp text of these monitors delivers a stunning visual performance. The vast 18.1" viewing area provides 37% more viewable space than the best 17" monitors. And with a .26mm dot pitch and maximum 1600x1200 resolution, your 3D games and intense graphic applications will explode to life in multimedia visual perfection.

QUANTEX

1.800.836.0566

www.quantex.com

Quantex business
It's like having an

Business Desktop Special

QP6/400 SB-3

(featuring the Pentium® II processor)

$2499 **Business Lease: $88/Mo.**

- **400MHz Pentium® II Processor**
- 2 Universal Serial Bus (USB) Ports/DMI 2.0
- 64MB SDRAM Memory / 512KB Secondary Cache
- 6.4GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- **3D Labs Permedia 2 AGP Graphics Card with 8MB**
- **17" Digital Monitor w/NEC ChromaClear CRT**
  (15.9" viewable; .25dp; 1600x1200 max. resolution)
- Choice of Intel Pro 100 Ethernet Controller with Wake-On-LAN Technology$^+$ or K56flex protocol Fax/Modem*
- 32X Max EIDE CD-ROM Drive
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- **MS Windows NT Workstation 4.0**
- **MS Office '97 Small Business Edition**
- 3-year limited warranty with 1-year on-site service**
- 24-hr./7-day Technical Support
- QSentry Technology (Including Intel LANDesk Client Manager V.3.1)

QP6/300 SB-3 (featuring Pentium® II Processor). .$1899
QP6/333 SB-3 (featuring Pentium® II Processor). .$2049
QP6/350 SB-3 (featuring Pentium® II Processor). .$2299

Business Desktops

QP5/233 SB-1 $1099

(with MMX™ Technology)

Business lease: $39/Mo.

- 233MHz Pentium® Processor with MMX™ Technology
- 2 Universal Serial Bus (USB) Ports / DMI 2.0
- 32MB EDO Memory / 512KB Pipelined Burst Cache
- 2.1GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- 64-bit 3D Graphics Card with 4MB RDRAM
- 15" Digital Monitor (13.8" viewable)
- Intel PRO 100 PCI Ethernet Adapter w/RJ-45
- 32X Max EIDE CD-ROM Drive
- Quantex Mid Tower Case
- 104-Key Keyboard with MS Mouse
- MS Windows 95 with MS Plus!
- 3-year limited warranty w/1-year On-Site Service
- 24-hr./7-day Technical Support
- QSentry Technology
  (Including Intel LANDesk Client Manager V.3.1)
- *Upgrade to Windows NT Workstation 4.0 for $99*

QP6/233 SB-1 (with Pentium II processor). . . .$1199
QP6/266 SB-1 (with Pentium II processor). . . .$1249

QP6/300 SB-2 $1649

(featuring Pentium® II Processor)

Business lease: $58/Mo.

- 300MHz Pentium® II Processor
- 2 Universal Serial Bus (USB) Ports / DMI 2.0
- 32MB SDRAM Memory / 512KB Secondary Cache
- 4.3GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- Matrox Productiva G100 AGP Graphics w/8MB SDRAM
- 17" Digital Monitor (15.8" viewable)
- *Choice of Intel PRO 100 Ethernet Controller with Wake-On-LAN$^+$ Technology or K56flex Fax/Modem**
- 32X Max EIDE CD-ROM Drive
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows 95 with MS Plus!
- MS Office '97 Small Business Edition
- 3-year limited warranty w/1-year On-Site Service
- 24-hr./7-day Technical Support
- QSentry Technology
  (Including Intel LANDesk Client Manager V.3.1)
- *Upgrade to Windows NT Workstation 4.0 for $99*

QP6/233 SB-2 (with Pentium II processor). . . .$1499
QP6/266 SB-2 (with Pentium II processor). . . .$1549
QP6/333 SB-2 (with Pentium II processor). . . .$1749

QP6/350 SB-4 $2499

(featuring Pentium® II Processor)

Business lease: $88/Mo.

- 350MHz Pentium® II Processor
- 2 Universal Serial Bus (USB) Ports / DMI 2.0
- 64MB SDRAM Memory / 512KB Secondary Cache
- 8.4GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- 3D Labs Permedia 2 AGP Graphics Card w/8MB SGRAM
- 19" Digital Monitor (18.1" viewable)
- *Choice of Intel PRO 100 Ethernet Controller with Wake-On-LAN$^+$ Technology or K56flex Fax/Modem**
- 32X Max EIDE CD-ROM Drive
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows NT Workstation 4.0
- MS Office '97 Small Business Edition
- 3-year limited warranty w/1-year On-Site Service
- 24-hr./7-day Technical Support
- QSentry Technology
  (Including Intel LANDesk Client Manager V.3.1)

QP6/300 SB-4 (with Pentium II processor). . . .$2099
QP6/333 SB-4 (with Pentium II processor). . . .$2249
QP6/400 SB-4 (with Pentium II processor). . . .$2699

QP6/400 SB-5 $2899

(featuring Pentium® II Processor)

Business lease: $102/Mo.

- 400MHz Pentium® II Processor
- 2 Universal Serial Bus (USB) Ports / DMI 2.0
- 128MB SDRAM Memory / 512KB Secondary Cache
- 11.5GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- 3D Labs Permedia 2 AGP Graphics Card w/8MB SGRAM
- 19" Digital Monitor (18.1" viewable)
- 32X Max EIDE CD-ROM Drive
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows NT Workstation 4.0
- MS Office '97 Small Business Edition
- 3-year limited warranty w/1-year On-Site Service
- 24-hr./7-day Technical Support
- QSentry Technology
  (Including Intel LANDesk Client Manager V.3.1)
- *Upgrade to Intel PRO 100 Ethernet w/WOL$^+$ for $69*
- *Upgrade to K56flex protocol Fax/Modem* for $69*

QP6/300 SB-5 (with Pentium II processor). . . .$2249
QP6/333 SB-5 (with Pentium II processor). . . .$2399
QP6/350 SB-5 (with Pentium II processor). . . .$2699

Microsoft Office '97 Small Business Edition: Word 97 • Excel 97 • Publisher 97 • Small Business Financial Manager 97 • Automap Streets Plus

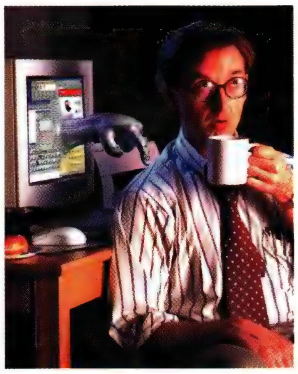
Upgrades: Zip 100MB Internal Drive w/one cartridge...$79 • Business AudioKit (Sound Card & Altec Lansing ACS-90 Speakers)...$49
HP Laserjet 6L Laser Printer...$379 • APC Back-UPS 280...$99 • APC Back-UPS 400...$129 • APC Back-UPS 600...$229

computing solutions.
extra pair of hands.

MMX™ intel inside pentium® II PROCESSOR

We make it our business to come up with computing solutions for your business

Quantex offers computing solutions that keep your business going — and growing. Now, we've incorporated network manageability into all of our business desktops, making them a better value than ever. Our managed business PCs support standards-based technologies such as Wired for Management (WfM), DMI-2.0 instrumentation, PC '97 and ACPI. This makes asset management, remote wake-up of systems over the LAN, remote configuration and diagnostics easily accomplished. It all adds up to a significant reduction in the total cost of PC ownership.



QSentry for an extra sense of security

QSentry technology — from Quantex — is like having a full-time tech expert in your PC, alerting you to possible hardware problems before they become critical. Incorporation of the LM78 hardware management chip allows the monitoring of system conditions like temperature, voltage and fan speed. With QSentry, you're assured of continuous peak performance. That's a good feeling.

OVERALL RANKINGS
Technical Support Survey

PC VENDOR	GRADE
Quantex	Excellent
Dell	
IBM	
Compaq	Good
Gateway 2000	
Micron	
Acer	Fair
Toshiba	
Digital	Poor
Packard Bell	

Windows Magazine, 8/97

WOULD YOU BUY AGAIN?

VENDOR	% WHO WOULD BUY THE SAME BRAND
Dell	92%
Quantex	91%
IBM	89%
Micron	81%
Gateway	80%
Acer	74%
Digital	69%
Toshiba	61%
Compaq	58%
Packard Bell	51%

Windows Magazine, 8/97

A technical support team that is one of the best in the business

Our support team is open for business 24 hours a day, seven days a week, 365 days of the year. They're so good at providing expert help for your business PCs that Quantex earned an overall ranking of "Excellent" in a recent *Windows Magazine* survey that rated reliability, service and technical support. A ranking that puts us up there in a select group that includes Dell and IBM. Not bad, at all.

91% of Quantex owners said they'd buy again. That's what you call customer satisfaction

How do you know if you have a good product? If people buy it again. And again. Of those surveyed by *Windows Magazine*, 91% said they would definitely buy another Quantex. You can't get a greater expression of customer confidence and satisfaction than that.

QUANTEX

1.800.836.0566

www.quantex.com

These prices deserve a great big hand

MMX™ intel inside pentium® II PROCESSOR

M-Series Best Buy $1999

(featuring Pentium® II processor)

Lease: $70/Mo.

- 333MHz Pentium® II Processor
- 2 Universal Serial Bus (USB) Ports
- 32MB SDRAM Memory / 512KB Secondary Cache
- 4.3GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- **Toshiba MPACT2 3D Media Accelerator w/8MB RDRAM**
- **19" Digital Monitor (18.1" viewable)**
- K56flex protocol Fax/Modem* w/Voice Mail and Speakerphone
- **2nd-Generation DVD-ROM Drive w/MPACT2 Decoding**
- Ensoniq 32-Bit Wavetable Sound Card
- Altec-Lansing ACS-90 Speakers
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS Mouse
- MS Windows '95 with MS Plus!
- Value Multimedia Software Bundle
- 3-year limited warranty with 1-year On-Site Service**

M-Series Best Buy w/350MHz Pentium® II processor....$2199

Software Bundle for M-Series Best Buy

• Corel Office Suite 8 • MS Money '97 • Compton's Interactive Encyclopedia • Compton's Interactive Encyclopedia • Body Works 6.0 • Internet the City • American Heritage Talking Dictionary • Amazon Trail II • Compton's Reference Collection • Dr. Solomons Find-Virus • MS Internet Explorer 4.0

The Quantex Best Buy Specials!

Looking for special products at special prices? At Quantex, we're always looking for new ways to help you save without sacrificing. Just check out this month's Best Buy Specials. With one great system from our M-Series and one from our SM-Series, you can choose your weapon. Both offer superior performance and speed, tons of hard drive space and a host of other features for the perfect multimedia experience. And, as expected, our Best Buy systems incorporate only the industry's latest components, so you can be sure you're getting cutting-edge, not obsolete.

SM-Series Best Buy $2199

(featuring Pentium® II processor)

Lease: $77/Mo.

- 333MHz Pentium® II Processor
- 2 Universal Serial Bus (USB) Ports
- 64MB SDRAM Memory / 512KB Secondary Cache
- 6.4GB Ultra ATA HD / 3.5" 1.44MB Floppy Drive
- **Toshiba MPACT2 3D Media Accelerator w/8MB RDRAM**
- **19" Digital Monitor (18.1" viewable)**
- K56flex protocol Fax/Modem* w/Voice Mail and Speakerphone
- **2nd-Generation DVD-ROM Drive w/MPACT2 Decoding**
- Ensoniq 32-Bit Wavetable Sound Card
- Altec-Lansing ACS-45 Speakers with subwoofer
- Quantex ATX Mid Tower Case
- 104-Key Keyboard with MS IntelliMouse
- MS Windows '95 with MS Plus!
- Power Multimedia Software Bundle
- **Microsoft Office '97 Small Business Edition**
- 3-year limited warranty with 1-year On-Site Service**

SM-Series Best Buy w/4000MHz Pentium® II processor....$2599

Software Bundle for SM-Series Best Buy

• **Microsoft Office '97 Small Business Edition** • MS Money '97 • Office Mate • Day Planner Pro • Power Business Plans • Form Designer Pro • Project Manager Pro • Labels Unlimited • Compton's Reference Collection • Dr. Solomons Find-Virus • MS Internet Explorer 4.0

Computer Shopper
1997 Direct Channel Achievement Award for Systems

PC Computing
1997 Most Valuable Product:
QP6/266 SM-4x

Windows Magazine
5 WINLIST Awards
Sep 97 - Apr '98

PC Magazine
Editor's Choice Award
QP5/233 M-3 (12/97)

PC World
11 Best Buy Awards
Oct '97 - Mar '98

Home PC
Lab Runner-up Award
QP5/233 SM-3
(12/97)

QUANTEX

1.800.836.0566

www.quantex.com

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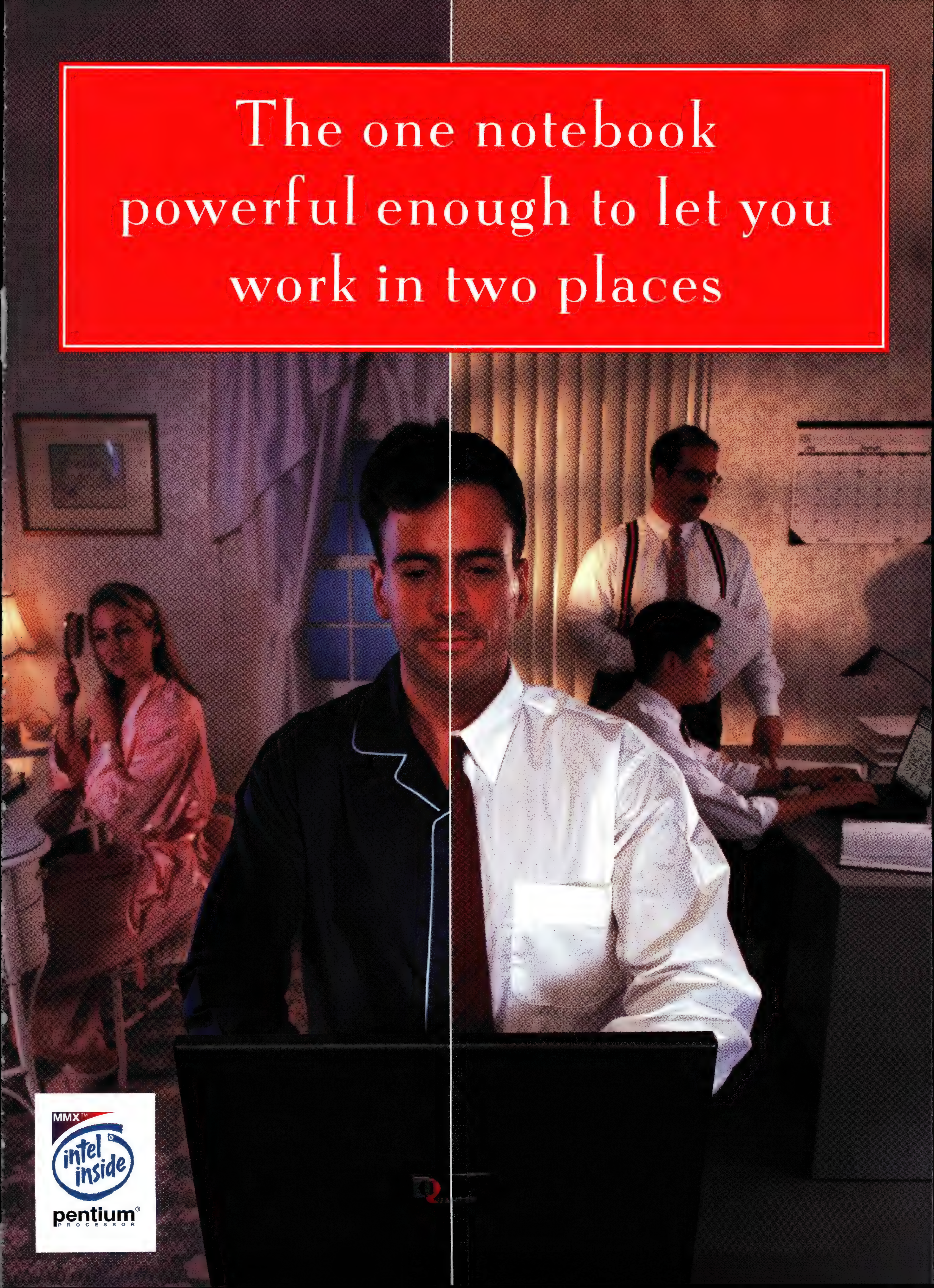
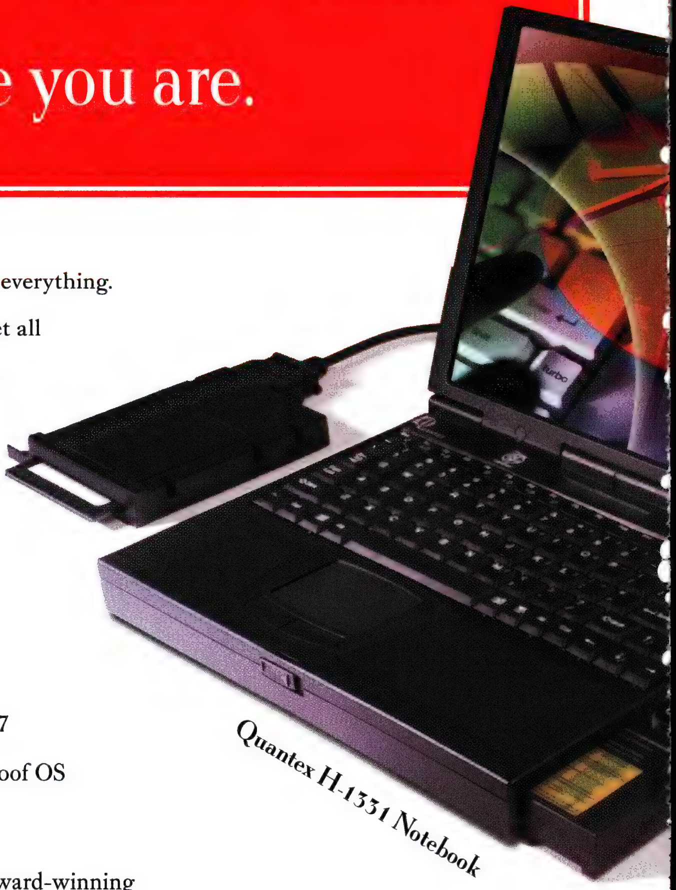

The one notebook powerful enough to let you work in two places
MMX™
intel inside
pentium® PROCESSOR

Quantex Notebooks. With the awesome desktop power, reliability and network capabilities that let you conduct business no matter where you are.



Quantex H-1331 Notebook

In today's business world the best thing is to have one PC that does everything. Whether in the office or at home. With a Quantex notebook you get all the desktop power, speed, and functionality needed to complete any task, with a big, sharp screen for comfortable viewing. It also allows for easy access to the Network, via LAN or WAN, in or out of the office.

Including advanced power management features, the H-1331 Notebook is powered by Intel's most powerful Mobile Pentium® II processor and the new Intel 440BX Chipset. It also features the perfect business package including Microsoft's Office '97 Small Business Edition and Windows NT Workstation, the crash-proof OS that provides greater security, reliability, and speed.

Our notebooks not only meet your bottom line, they're backed by award-winning support. Support so superior, 91% of the people interviewed in a *Windows Magazine* survey said they would buy another Quantex system. That's something for you to think about when you're considering your next notebook purchase.

Securing Your Business

MMX™
intel inside®
pentium®
PROCESSOR

As a valued Quantex customer, you have access to premium service and support 24 hours a day, seven days a week. No matter where you are, you can call our toll-free technical support hotline for fast, knowledgeable assistance. Your notebook is also protected by a 3-year limited warranty on the processor and main memory, and a 1-year parts and labor limited warranty on all other components.

The reviews were so impressive, you'd think we wrote them ourselves.

PC World (03/98)

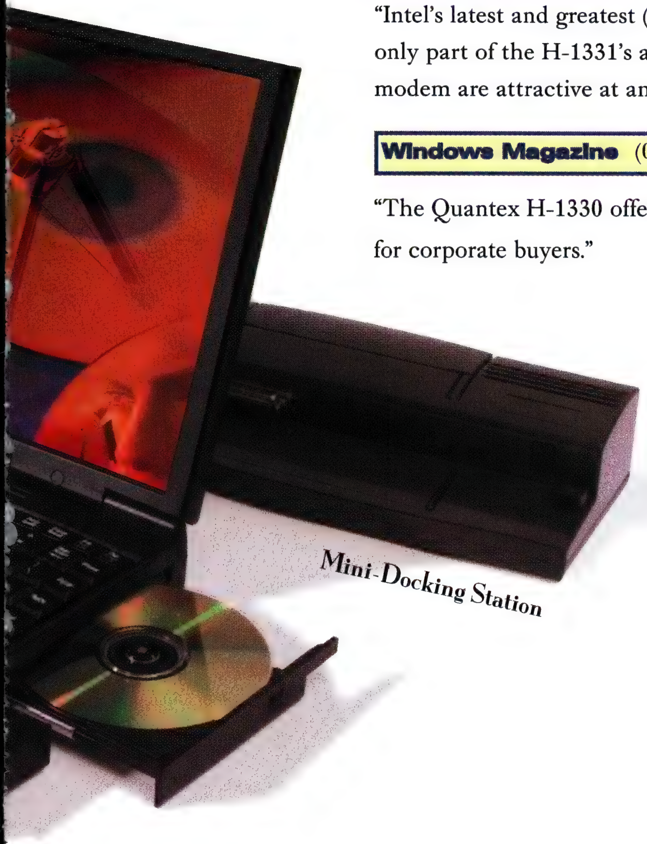
"Quantex's latest entry into the power notebook market--the elegant H-1330--gives you hot-rod speed and a large screen for presentations. The H-1330 won't disappoint on the road. Most impressive is the system's single lithium ion battery, which fueled the notebook for nearly six hours."

Computer Shopper (02/98)

"Intel's latest and greatest (266MHz Pentium® processor with MMX® Technology) mobile CPU is only part of the H-1331's appeal - its modular design, 13-inch display, and bundled PC Card modem are attractive at any speed."

Windows Magazine (02/98)

"The Quantex H-1330 offers big features and solid performance at a great price...a safe bet for corporate buyers."



Quantex H-1331 $2899

Business lease: $102/Mo.

- 266MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 13.3" XGA Active Matrix Display
- 64MB SDRAM (expandable to 144MB)
- 512KB Secondary Cache
- 4GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex™ protocol Fax/Modem
- 24X Max Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- 2nd Lithium Ion Battery
- Mini-Docking Station
- USB and Fast IR Ports
- Integrated Personal Touchpad
- Windows NT Workstation 4.0 or MS Windows 95
- MS Office '97 Small Business Edition
- Carrying Case

H-1331 w/233MHz Pentium II processor.................................$3099
H-1331 w/266MHz Pentium II processor.................................$3299

Best Buy Special $2399

Business lease: $84/Mo.

- 266MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 12.1" SVGA Active Matrix Display
- 64MB SDRAM (expandable to 144MB) / 512KB Pipelined Burst Cache
- 3GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex™ protocol Fax/Modem
- 24X Max Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- MS Windows '95
- MS Office '97 Small Business Edition
- Free Deluxe Carrying Case (Limited time offer/$99 Value)

Free Deluxe Carrying Case

For a limited time, receive this versatile, deluxe carrying case free with every Quantex "Best Buy Special" notebook.

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GOOD CHOICE.℠
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Quantex Notebooks

Opening eyes and turning heads, these are the notebooks you've been waiting for.

Quantex C-1209 $1499
(with MMX™ Technology)

Business lease: $53/Mo.

- 166MHz Pentium® processor with MMX™ Technology
- 12.1" SVGA DSTN Display
- 16MB RAM
- 256KB Secondary Cache
- 2GB HD / 3.5" 1.44MB Modular Floppy Drive
- K56flex protocol Fax/Modem
- 20X Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- MS Windows 95
- Corel Office Suite 8

Quantex H-1210 $1899
(with MMX™ Technology)

Business lease: $67/Mo.

- 200MHz Pentium® processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 12.1" SVGA Active Matrix Display
- 32MB SDRAM (expandable to 144MB)
- 512KB Pipelined Burst Cache
- 2GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex protocol Fax/Modem
- 24X Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- MS Windows 95
- Corel Office Suite 8
- Carrying Case

H-1210 w/233MHz Pentium processor w/MMX technology....................$1999

Quantex H-1330 $2499
(with MMX™ Technology)

Business lease: $88/Mo.

- 266MHz Pentium® processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 13.3" XGA Active Matrix Display
- 32MB SDRAM (expandable to 144MB)
- 512KB Pipelined Burst Cache
- 3GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex protocol Fax/Modem
- 24X Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- Windows NT Workstation 4.0 or MS Windows 95
- MS Office '97 Small Business Edition
- Carrying Case

H-1330 w/233MHz Pentium processor w/MMX technology....................$2399

Quantex H-1331 $2899
(with MMX™ Technology)

Business lease: $102/Mo.

- 266MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 13.3" XGA Active Matrix Display
- 64MB SDRAM (expandable to 144MB)
- 512KB Secondary Cache
- 4GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex™ protocol Fax/Modem
- 24X Max Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- 2nd Lithium Ion Battery
- Mini-Docking Station
- USB and Fast IR Ports
- Integrated Personal Touchpad
- Windows NT Workstation 4.0 or MS Windows 95
- MS Office '97 Small Business Edition
- Carrying Case

H-1331 w/233MHz Pentium II processor $3099

H-1331 w/266MHz Pentium II processor $3299

Best Buy Special $2399
(with MMX™ Technology)

Business lease: $84/Mo.

- 266MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module (I.M.M.) Architecture
- 12.1" SVGA Active Matrix Display
- 64MB SDRAM (expandable to 144MB)
- 512KB Pipelined Burst Cache
- 3GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA K56flex™ protocol Fax/Modem
- 24X Max Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- MS Windows 95
- **MS Office '97 Small Business Edition**
- Free Deluxe Carrying Case

OPTIONS

Mini-Docking Station	$169
2nd Lithium Ion Battery	$169
PCMCIA Network Adapter	$129
Deluxe Carrying Case	$99
Upgrade to 5GB HDD	$Call

SUPPORT POLICY

- 30-day money back guarantee
- One-year Parts and Labor limited warranty
- Three-year limited warranty on CPU and Main Memory
- One-Year Depot Repair
- One-Year Express Parts Replacement Warranty
- 24-hr./7-day Toll-Free Technical Support

For more information on Quantex Notebooks and our entire product line, visit our web site at www.quantex.com. Please call for custom configuration options and the latest pricing.

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MMX™ intel inside pentium® PROCESSOR

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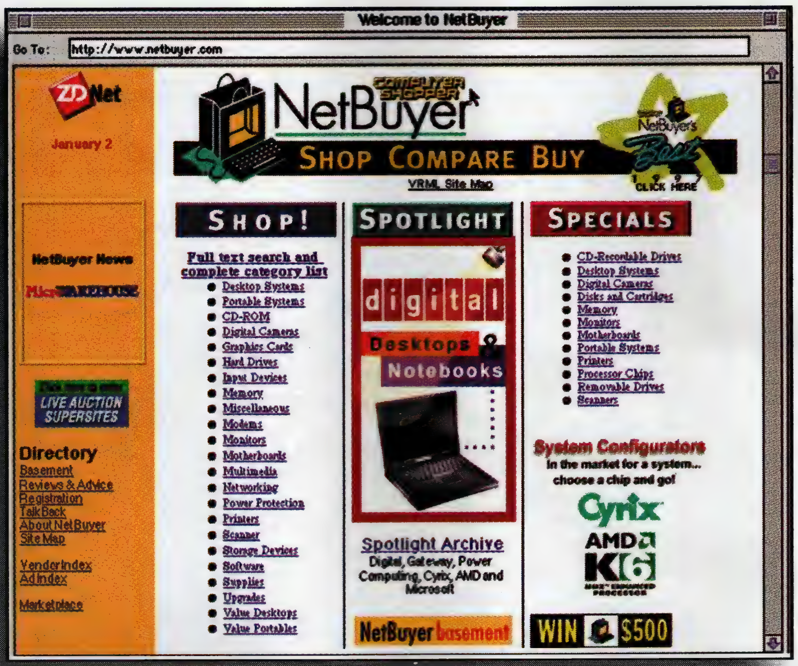
The Everything Computer Shopping Site.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VRML Site Map
NetBuyer's Best
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CD-ROM
Digital Cameras
Graphics Cards
Hard Drives
Input Devices
Memory
Miscellaneous
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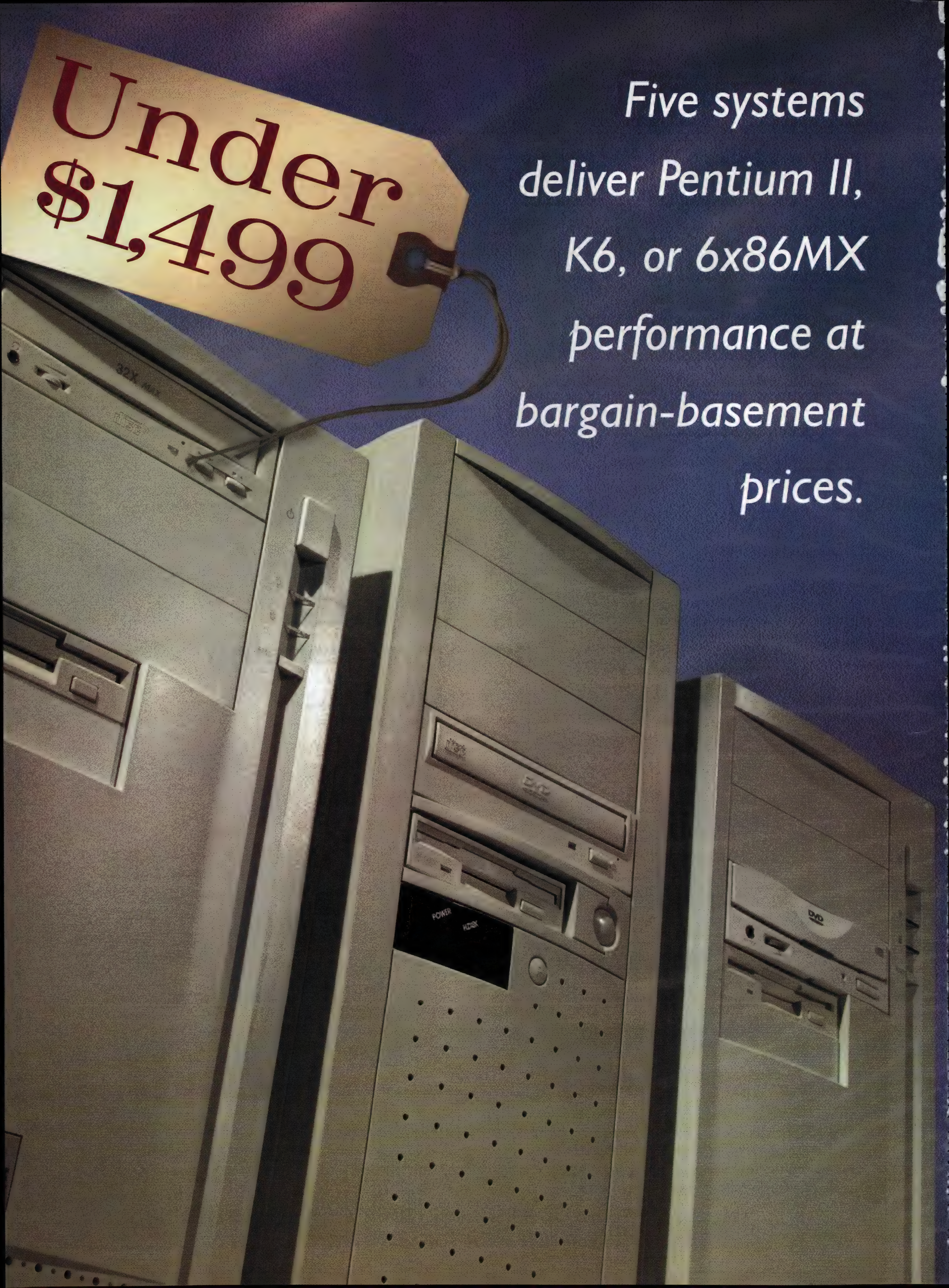
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Under $1,499

Five systems deliver Pentium II, K6, or 6x86MX performance at bargain-basement prices.

PURCHASING POWER

BY AMEE ABEL

Today's big *news* may be systems with 300MHz-plus processors, but today's big *buys* are at 233MHz. Each of the five bargains we gathered for this story sells for less than $1,500, yet most sacrifice little in the way of power or longevity. For instance, all come with 32MB of RAM and at least 3.2GB of hard drive capacity, and the three Pentium II systems come with AGP graphics cards that deliver blindingly fast 3-D performance. Though the AMD-K6- and Cyrix 6x86MX-based systems don't support AGP technology, as do the Pentium IIs, they are MMX-compatible and should run Windows NT even faster than do the Windows 95 systems.

These systems' versatility, longevity, and affordability are keys to understanding their appeal and the role they may play in the coming months. At press time, Intel Corp. had already begun shipping 333MHz Pentium IIs, and the company was expected to begin shipping 350MHz and 400MHz versions by the time you read this article. These 350MHz and 400MHz CPUs will use motherboards based on Intel's forthcoming 440BX chip set, which will increase the memory bus' speed to 100MHz, up from the 66MHz rate of most systems in use today.

FACT FILE

Category Tested	**$1,499 Desktop Systems**
Price Range	$1,348 to $1,499
Minimum Configuration	233MHz Pentium II, 233MHz AMD-K6 MMX, or Cyrix 6x86MX PR233; 32MB RAM; 3.2GB hard drive; 24x CD-ROM drive or 1x DVD-ROM drive; 2MB graphics RAM; 16-bit audio subsystem; 33.6Kbps modem; 15-inch monitor
Companies Included	ABS Computer Technologies, Compaq Computer Corp., Comtrade Computer, CyberMax, Zenon Computer

With such incredibly fast systems ready to hit the market, the idea of investing in an MMX Pentium system will likely lose its appeal for a great many buyers. A 233MHz Pentium II may seem slow compared with the forthcoming 400MHz, but its Pentium II floating-point performance and 32-bit prowess should at least help it qualify for the race. Systems based on the 440LX will also get a boost with tomorrow's demanding 3-D and multimedia software, due to that chip set's support for AGP. In short, the 233MHz Pentium II seems destined to play the role of an acceptable entry-level processor for those who want to ensure that the system they buy today will be capable of running the software of tomorrow.

Two of the five systems we review here build on Socket 7 CPUs from AMD or Cyrix—the 233MHz AMD-K6 MMX and the Cyrix 6x86MX PR233. The Cyrix processor actually runs at 188MHz, but it's rated to perform as the equivalent of a 233MHz Pentium II. With no AGP support in current Socket 7 motherboards, systems based on these chips are at somewhat of a disadvantage compared with Pentium II systems, at least for buyers who care about 3-D capabilities. According to AMD and Cyrix, Socket 7 motherboards supporting AGP should be shipping in systems in May.

The AMD and Cyrix processors themselves should land somewhere between similarly clocked MMX Pentiums and Pentium IIs in both capabilities and longevity. For instance, on standard business application benchmarks, both the AMD and Cyrix processors can outrun an MMX Pentium—and rival a Pentium II—of the same speed, but neither can match the Pentium II's floating-point performance or its speed running 32-bit software. The former is important with some 3-D, multimedia, and scientific software; the latter is important in general, but will become increasingly important as Windows NT becomes more popular.

GIVE AND TAKE

For this roundup, we required that each system be based on a 233MHz-class processor, whether a Pentium II, an AMD-K6 MMX, or a Cyrix 6x86MX. In addition, our specs called for at least 32MB of memory, 16-bit audio hardware, and speakers. Other minimum requirements included a 2GB hard drive, an 8x CD-ROM drive, a 33.6Kbps modem, and a 15-inch monitor. Finally, the manufacturer had to guarantee that its price would remain below $1,500 until at least the beginning of June.

The five systems we received offer a tantalizing variety of cutting-edge configurations, and each exceeds our base requirements in at least some respects. For instance, hard drive capacities climb to as high as 6.4GB, and every system but the Compaq Presario supports 33.3MB/sec Ultra DMA hard drive transfers. Better yet, two systems—the CyberMax and Zenon models—boast DVD-ROM drives and decoder boards. The three systems that don't ship with DVD-ROM drives provide CD-ROM drives with peak rates of 24x to 32x. All but one of the systems' sound cards incorporate wavetable synthesis, and two systems shipped subwoofers with their speakers. Finally, all of the systems come with

PHOTOGRAPHY BY BILL MILNE

FEATURES COMPARISON

	ABS LX Supreme 3D 3	Compaq Presario 4540	Comtrade Screamer AGP XC6/233	CyberMax MaxMedia 4
Direct Price as Tested	$1,379	$1,348 (avg. mail-order)	$1,499	$1,499
CONFIGURATION				
Processor	233MHz Pentium II	233MHz AMD K6 MMX	233MHz Pentium II	Cyrix 6x86MX PR233
Motherboard	Tekram P6L40AX	Compaq	Gigabyte GA-686LX	Biostar MB-8500TUD-A
BIOS/Date	Award/10-97	Phoenix/12-5-97	Award/1-1-97	Award/11-97
Chip Set	Intel 440LX AGPset	Intel 430VX PCIset	Intel 440LX AGPset	Intel 430TX PCIset
RAM Installed/Max.*/Type*	32MB/384MB/SDRAM	32MB/48MB/SDRAM	32MB/1024MB/SDRAM	32MB/128MB/SDRAM
Total/Available RAM Slots	Four/one (DIMM)	One/none (DIMM)	Four/three (DIMM)	Four/four (DIMM), two/one (SIMM)
External Cache Installed/Max.*/Type*	512K/512K/pipeline-burst	256K/512K/pipeline-burst	512K/512K/pipeline-burst	512K/512K/pipeline-burst
Number and Type of Expansion Slots	One AGP, two ISA, three PCI, one PCI/ISA	Two ISA, one PCI/ISA	One AGP, two ISA, three PCI, one PCI/ISA	Two ISA, four PCI, one PCI/ISA
Available Expansion Slots	One ISA, three PCI	One ISA, one PCI/ISA	Three PCI, one ISA	One ISA, one PCI, one PCI/ISA
I/O Ports	Two serial, two USB, one parallel, one game	One serial, two USB, one parallel, one game	Two serial, two USB, one parallel, one game	Two serial, two USB, one parallel, one game, one S-Video out
Case Dimensions (HWD, Inches)	17.5x7.5x19	14.5x7.75x12	15.5x8.5x18	17x8x16.25
STORAGE				
Hard Drive Rated Size/Model*/Interface	4.3GB/Fujitsu MPA3043AT/ATA	3.2GB/Quantum Bigfoot TX 3.2AT/ATA	6.4GB/IBM Deskstar 5 DHEA-36480/ATA	4.3GB/Western Digital Caviar AC34300/ATA
Hard Drive Rotational Speed (rpm)*	5,400	4,000	5,400	5,400
File System	FAT32	FAT32	FAT32	FAT32
Maximum External Transfer Rates (MB/sec)*	16.7 (PIO Mode 4), 33.3 (Ultra DMA Mode 2)	16.7 (PIO Mode 4, DMA Multiword Mode 2)	16.7 (PIO Mode 4), 33.3 (Ultra DMA Mode 2)	16.7 (PIO Mode 4), 33.3 (Ultra DMA Mode 2)
MULTIMEDIA				
Optical Drive Type/Interface	CD-ROM/ATAPI	CD-ROM/ATAPI	CD-ROM/ATAPI	DVD-ROM (2x)/ATAPI
DVD Decoder Board	NA	NA	NA	Quadrant Cinemaster
Drive/CD-ROM Speed	Panasonic CR-585-B/24x max	Mitsumi CRMC-FX240S/ 24x max	LG CRD-8320B/32x max	Toshiba SD-M1102/16x max
Sound Card/Bus	Yamaha SoftWave 718/ ISA	ESS AudioDrive ES1887F/ integrated	Yamaha OPL-3/ISA	Ensoniq AudioPCI/PCI
FM*/Wavetable*	Yes/yes	Yes/no	Yes/yes	Yes/yes
Speakers	Benwin BW717-3D	Ported JBL Pro	Juster AC-691N	Altec Lansing ACS-45
Subwoofer Included	No	No	No	Yes
DISPLAY				
Graphics Card	ATI Xpert@Work	Integrated	Diamond Viper V330 AGP	STB Nitro 3D
Graphics Processor	ATI 3D Rage Pro	S3 Trio64V2/DX	nVidia Riva 128	S3 Virge GX
Installed RAM/Max.*/Type*	4MB/8MB/SGRAM	2MB/2MB/DRAM	4MB/4MB/SGRAM	4MB/4MB/SGRAM
AGP Mode (1x/2x)/Texturing(AGP/local)	2x/AGP	NA	1x/AGP	NA
Maximum Rated Noninterlaced Resolution*	1,600x1,280 at 16.8M, 75Hz	1,280x1,024 at 256, 75Hz	1,600x1,200 at 65K, 85Hz	1,600x1,200 at 256, 60Hz
Graphics Driver Version Tested	ATI 4.10.2237	S3 4.10.00.1555	Diamond 4.10.01.0014	STB 4.03.00.2121.1.52A
Graphics Driver Date	1/8/98	7/12/97	11/26/97	6/23/97
Monitor	Sceptre P511	Compaq Presario 1525	SunView DX-1568	Mag InnoVision 720V2
Rated*/Measured Screen Size (Inches)	15/13.9	15/13.5	15/13.8	17/16.1
Horizontal Dot Pitch (mm)*	0.28	0.28	0.28	0.28
Maximum Noninterlaced Vertical Refresh Rate*				
@ 800x600	100Hz	75Hz	108Hz	110Hz
@ 1,024x768	80Hz	60Hz	85Hz	85Hz
Max. Actual Noninterlaced Resolution of Display Subsystem	1,280x 1,024 at 16.8M, 60Hz	1,024x768 at 256, 60Hz	1,280x1,024 at 65K, 60Hz	1,280x1,024 at 65K, 85Hz
COMMUNICATIONS				
Modem Model/Speed	ASCII 20447 x2/56Kbps (x2)	PS8226 High Speed Faxmodem/56Kbps (K56flex)	Apex Data Rapid Transit/56Kbps (K56flex)	CPI ViVa CommCenter 56LX/56Kbps (K56flex)
Voice/Speakerphone/Caller ID*	Yes/yes/no	Yes/no/no	Yes/yes/yes	Yes/yes/no
SOFTWARE				
Windows 95 Version	OSR2	OSR2.1	OSR2	OSR2.1
Applications Included With System	Lotus SmartSuite 97, Grolier's Encyclopedia '97	MS Works, MS Money 98, MS Bookshelf 98, MS Encarta 98, Electronic Arts Moto Racer, Quicken Basic 98	Webster's Encyclopedia Multimedia CD	Corel WordPerfect Suite 8, Blockbuster Entertainment's Guide to Movies and Videos, Billboard's Music Guide, Azrael's Tear, Softkey Kitchen Gourmet, Softkey Labels Unlimited, Softkey Paint, Write and Play, Softkey Word Munchers Deluxe, Softkey Calendar Creator 4.0, BodyWorks 6.0, Compton's Interactive Encyclopedia 1997, NCAA Basketball Final Four '97, RingCentral 4.0
SERVICE AND SUPPORT*				
Money-Back Guarantee/Restocking Fee	30 days/none	90 days/none	30 days/none	30 days/none
Standard Warranty (Parts and Labor)	Three years parts, lifetime labor	One year onsite	One year	Three years parts, one year onsite labor (qualified)
Extended/Upgraded Warranties	None	$199 adds two years onsite service	$219 for three years onsite service	$149 adds three years onsite
Onsite Providers	NA	Compaq Authorized Service Providers	Service Net	Vanstar, Philips Magnavox
Toll-Free Telephone Support	Yes	Yes	Yes	Yes
Live Tech-Support Hours (ET)	11:30 a.m. to 8:30 p.m. weekdays	24 hours daily	10 a.m. to 10 p.m. weekdays, 11 a.m. to 8 p.m. Sat.	24 hours daily
Who Pays for Shipping Under Warranty	Vendor one way	Vendor both ways	Vendor one way	Vendor both ways
Online Tech Support	Web	Web	BBS, Web	BBS, Web

*According to vendor or manufacturer NA=Not applicable

Zenon Dream Media Plus
$1,399
233MHz Pentium II
BCM KR632 ATX
AMI/12-97
Intel 440LX AGPset
32MB/384MB/SDRAM
Three/two (DIMM)
512K/512K/pipeline-burst
One AGP, one ISA, four PCI, one PCI/ISA
Three PCI, one ISA
Two serial, two USB, one parallel, one game, one S-Video out
15.5x8.5x18
4.3GB/Maxtor DiamondMax 2160D/ATA
5,200
FAT32
16.7 (PIO Mode 4), 33.3 (Ultra DMA Mode 2)
DVD-ROM (1x)/ATAPI
STB DVD Theater
Pioneer DVD-101/10x
Aztech PCI-128 Wave (SC128-3D)/PCI
Yes/yes
4Q Super Subwoofer
Yes
STB Velocity 128
nVidia Riva 128
4MB/4MB/SGRAM
1x/AGP
1,600x1,200 at 16.8M, 85Hz
STB 4.10.01.0129
1/13/98
MaxTech XT 5871
15/14
0.28
85Hz
75Hz
1,280x1,024 at 16.8M, 60Hz
MultiWave Innovation CommWave 56K DSP/ 56Kbps (x2)
Yes/yes/yes
OSR2.1
Lotus SmartSuite 97, Webster's World Encyclopedia
30 days/none
One year
$200 for one year onsite, $200 for years two through four onsite
Service Net first year, then NWC
Yes
10 a.m. to 10 p.m. weekdays, 1 p.m. to 6 p.m. Sat.
Vendor one way
BBS, Web

fax modems capable of 56Kbps downloads, and all offer speakerphone capabilities. In short, $1,500 can now buy a lot of PC.

At these prices, though, expect compromises with any system you buy. The trick is to find the configuration that provides the features you need and skimps on the features you don't.

The software bundled with these bargain-priced systems varies greatly, from a lone multimedia encyclopedia with the Comtrade Screamer AGP XC6/233 to a list of software that could fill an encyclopedia with the CyberMax MaxMedia 4. Of course, free software that you won't use doesn't add much real value to a system, so remember to consider which software is included, not just how much.

Three-year warranties with one year of onsite service have become common among pricier units, but you'll have to narrow your choices quite a bit among this group if you demand the same. The CyberMax unit matches its more costly siblings in this regard, but the other four systems lack three-year warranties, onsite service, or both. Similarly, only the Compaq and CyberMax offerings come with 24-hour technical support daily.

ABS LX Supreme 3D 3, Compaq Presario 4540

As you peruse the feature table printed with this article, you'll spot other fairly obvious differences between these machines and some more costly offerings. For instance, whereas 17-inch monitors have become the norm for systems at higher price points, four of the five—all but the CyberMax—opt for 15-inch monitors. This relatively small monitor size is a fairly major concession to economy, particularly if you're already accustomed to using a 17-inch monitor. A 15-inch monitor will effectively limit you to a resolution of 800x600 with at least most software.

Another difference: Whereas many of the more expensive systems we review use Intel motherboards, all of these systems come with motherboards manufactured by other companies. The names behind these five motherboards are generally familiar enough, however, and all of the motherboards use well-known chip sets: Intel's 430VX, 430TX, or 440LX. In most cases—all but with the Compaq system, in fact—the motherboards make good allowances for future upgrades.

Three of the five systems—those that have Pentium II processors—use the 440LX chip set, which supports AGP technology. AGP provides a dedicated high-speed connection between the system's chip set and a graphics card. The connection's primary purpose is to let the graphics accelerator chip use chunks of system memory for holding texture maps when necessary. This capability increases the realism of 3-D software without requiring display adapters to provide large quantities of their own RAM.

For most of us, AGP's advantages will become apparent only with forthcoming 3-D software that makes heavy use of large textures. The sizable differences among these systems' benchmark scores with both 2-D and 3-D graphics have more to do with the prowess of each system's graphics accelerator than with whether it connects to a PCI connector or an AGP connector.

SETTING PRIORITIES

Be sure to focus on the performance issues most important to you as you consider each system's benchmark numbers. If you run 3-D games about as frequently as comets swing by our planet, then AGP support and how well each system scores on our 3D WinMark 98 probably won't matter much. On the other hand, if you suspect that 3-D games might eventually appear high on your, or your family's, agenda, you should make a point of choosing a PC with AGP graphics and a high 3D WinMark 98 score.

As usual, Business Winstone 98 scores provide the best indication of the relative speed of each system with mainstream business applications. The CPUmark$_{32}$, Business Graphics WinMark 98, and Business Disk WinMark 98 scores help explain the overall performance differences that the Business Winstone 98 scores depict. In other words, if you like a system's Winstone 98 scores well enough and you primarily use mainstream business applications, don't let a somewhat low CPUmark$_{32}$, Graphics WinMark, or Disk WinMark score put you off.

Shoppers concerned about multimedia performance should be heartened by our CD-ROM and Video Playback results. All of the systems posted CD-ROM WinMark 98 scores that were at least respectable, and all but one system—the Compaq—scaled our MPEG-1 video clip to full screen without dropping a significant number of frames.

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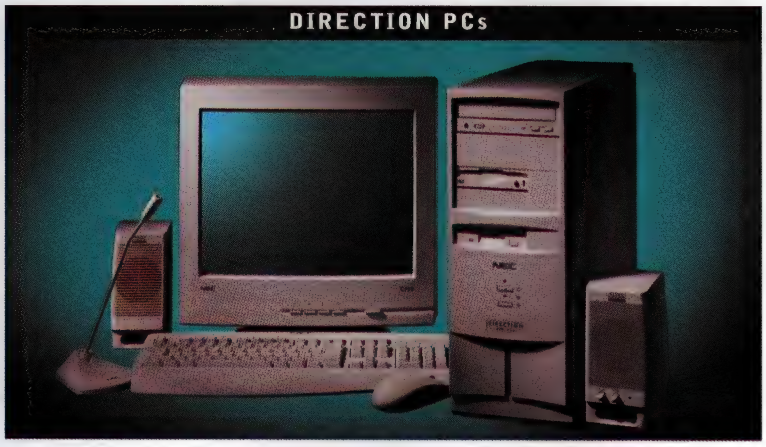

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Direction SPL300 - PC Computing, Mar. 1998

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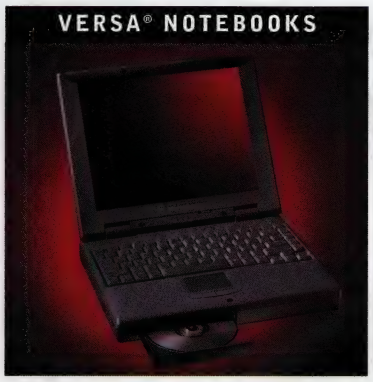

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> *Portable Computing Direct Shopper, Mar. 1998*

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- Integrated 56Kbps* Modem
- PCI Bus Architecture with NeoMagic 128-Bit Graphics Accelerator
- Stereo Speakers and Subwoofer with 3-D Surround Sound and Yamaha Wavetable
- 32-Bit CardBus and Zoomed Video Support
- USB and 4Mbps Fast Infrared Ports
- Microsoft Windows 95, Microsoft Home Essentials including Word 97

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- Integrated Yamaha Audio
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- Microsoft Windows 95
- **Microsoft Office 97 Small Business Edition**
- Microsoft IntelliMouse, NEC Palmrest Keyboard, and Microphone
- 3-Year Limited Warranty with 1-Year On-Site Service

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- 512KB L2 Cache
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- 32X Maximum Variable-Speed CD-ROM Drive
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- Altec Lansing ACS-90 Speakers
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Direction 300L

- **300MHz Pentium II processor**
- ATX Minitower or Desktop Tool-Less Chassis
- **32MB SDRAM**
- 512KB L2 Cache
- **4.3GB Ultra ATA Hard Drive**
- 32X Maximum Variable-Speed CD-ROM Drive
- **Diamond Viper AGP, 4MB SGRAM Graphics Card**
- Altec Lansing ACS-90 Speakers
- Yamaha Wavetable Audio
- **U.S. Robotics x2 56Kbps* Winmodem**
- NEC C700 17" Monitor (16" viewable, .27dp)
- Microsoft Windows 95
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COMPUTER SHOPPER BENCHMARKS (HIGHER SCORES ARE BETTER, EXCEPT WHERE NOTED)

	ABS LX Supreme 3D 3	Compaq Presario 4540	Comtrade Screamer AGP XC6/233	CyberMax MaxMedia 4	Zenon Dream Media Plus	*Benchmark System:* Dell Dimension XPS D266
PROCESSOR TYPE	233MHz Pentium II	233MHz AMD K6 MMX	233MHz Pentium II	Cyrix 6x86MX PR233	233MHz Pentium II	266MHz Pentium II
APPLICATION PERFORMANCE						
Business Winstone 98	18.0	15.1	19.5	17.4	17.0	20.1
PROCESSOR SUBSYSTEM						
CPUmark$_{32}$	596	456	606	486	592	689
GRAPHICS SUBSYSTEM						
Business Graphics WinMark 98						
65,536 Colors @ 1,024x768	116	65	125	107	88	105
16.8 Million Colors @ 800x600	100	50	112	106	84	96
3D WinMark 98	294	*	440	43	434	411
DISK SUBSYSTEM						
Business Disk WinMark 98	1,030	897	1,330	1,160	1,150	1,350
MULTIMEDIA PERFORMANCE						
CD-ROM WinMark 98	1,340	1,350	1,590	1,310	985	1,290
Video Playback (Native/Scaled)						
Frames Dropped (%, lower is better)	0/0	2/55	0//0	0/0	1/0	0/0
CPU Utilization (%, lower is better)	45/45	80/98	40/40	47/47	46/45	43/43

*The Compaq Presario 4540's integrated graphics provided no 3-D acceleration.

How We Tested

For information on how we test desktop systems in our Features product roundups, see "How We Test" in this issue's Reference section.

$1,379 direct price. This 233MHz Pentium II AGP system delivered average overall performance for this group, scoring 18 on Business Winstone 98.

The LX Supreme stands alone in its use of the ATI Xpert@Work AGP graphics accelerator. Based on ATI's 3D Rage Pro graphics processor, the Xpert@Work comes with 4MB of SGRAM, upgradable to 8MB. The card performed reasonably well on all of our tests, though with the LX Supreme's driver version, the ATI card didn't do as well on 3D WinMark 98 as the two systems that use Riva 128-based cards. The LX Supreme posted a 3D WinMark 98 score of 294, considerably lower than the scores of 440 posted by the other two. With ATI's latest drivers, the Xpert@Work should deliver about the same 3-D performance as the Riva 128.

The system's 4.3GB Fujitsu MPA3043 Ultra DMA hard drive posted slightly below-average results on the Business Disk WinMark 98. The system's 24x Panasonic CR-585 CD-ROM drive fared a bit better, getting an average score on our CD-ROM WinBench 98.

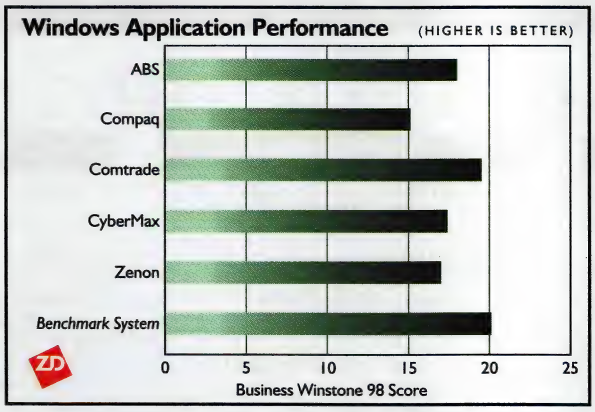
The LX Supreme had no trouble playing back our video clips. Even scaled to full screen, the image never stuttered. The system includes a 15-inch Sceptre P511 monitor, which has a viewable area measuring 13.9 inches diagonally and displays a sharp image.

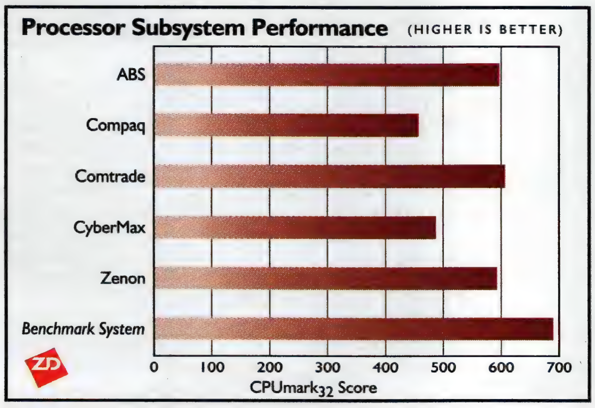
The system's Yamaha SoftWave 718 ISA sound card provides 16-bit sound with both FM and wavetable synthesis capabilities. And its Benwin Multimedia speaker system, which consists of two powered bookshelf-type speakers but no subwoofer, manages better sound than you'd expect given its small footprint. Still, they won't replace your stereo system. Even at levels that won't wake the neighbors, bass distortion turns the low end into rumbly mud. The installed ASCII 20447 56Kbps fax modem uses the 3Com Corp./U.S. Robotics x2 protocol for 56Kbps downloads.

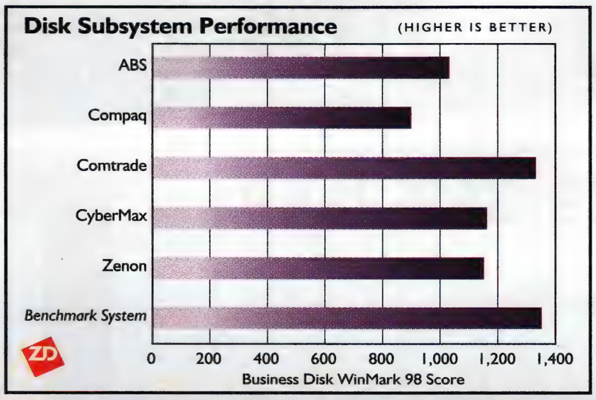
Housed in a beige mid-tower case, the LX Supreme provides six accessible drive bays and one internal bay; the latter holds the hard drive. The system is built around a Tekram P6L40 motherboard that includes plenty of room for expansion. One of the four DIMM slots holds the system's 32MB of SDRAM.

ABS provides telephone support only 45 hours a week and only during weekdays. However, the system does include a strong warranty, consisting of labor coverage for as long as you own the PC. ABS also includes a better-than-average system manual and a helpful setup guide. The system's software bundle comprises Lotus SmartSuite 97 and Grolier's Encyclopedia '97.

The LX Supreme rates as a competent offering, and it should provide ample speed for those looking for a system in this price range. The system is well worth consideration if you don't mind the relatively short hours maintained by ABS's support department.







Compaq Presario 4540

The Compaq Presario 4540 offers both the best and the worst of this group. On the one hand, Compaq Computer Corp. certainly seems to understand how to make people comfortable with their purchase: Color-coded plugs and a quick-setup guide make this an easy system to put together, and an online tutorial introduces the system. On the other hand, the Presario 4540 offers the least power and flexibility for its price. We found this 233MHz AMD-K6 MMX-based system selling for about $1,348 by mail.

The system's Compaq motherboard falls a bit short in expandability. For instance, you'll find only one DIMM memory slot, which means that any memory upgrade requires throwing out the existing memory module. And even then, maximum memory capacity is a mere 48MB. The motherboard provides only three I/O slots—two ISA and one shared PCI/ISA—though it makes up for this somewhat by integrating accelerator chips for audio and graphics.

The integrated S3 TrioVX64/DX graphics chip provides no 3-D acceleration, making the Presario 4540 less than optimal for many home buyers. And the system provides only 2MB of graphics RAM, compared with the 4MB of the other four systems in this roundup.

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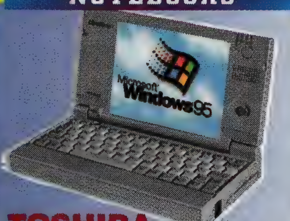

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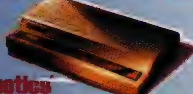

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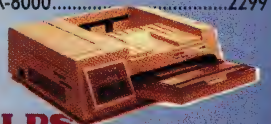

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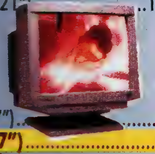

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PC MAGAZINE *Editors' Choice*

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This means that with 16.8 million colors, the system can handle a maximum resolution of only 800x600. According to Compaq, plugging a graphics card into the system's shared PCI/ISA expansion slot will automatically disable the integrated graphics chip.

The Presario 4540 performed significantly slower than the other systems in this roundup on most tests. For instance, its Business Winstone 98 score of 15.1 was 13 percent lower than the 17.4 average, making it easily the lowest Winstone score of the roundup. Slow graphics performance deserves part of the blame: The Presario 4540's Business Graphics WinMark 98 scores of 64.7 and 50.3 were about half as high as most of the other systems'. (Because of the integrated S3 TrioVX64/DX's lack of 3-D acceleration, we did not run 3D WinMark 98.) The Presario 4540's Business Disk WinMark 98 result also lagged behind the scores of its competitors, though not nearly by so large a margin. The system uses a 3.2GB Quantum Bigfoot drive.

The Presario's 24x Mitsumi CD-ROM drive posted a competitive 1,350 on CD-ROM WinMark 98, but we were disappointed with the system's video playback. When scaling our test clip to full screen, the system dropped 55 percent of the clip's frames. The Presario's CPU utilization was also high, at 97.6 percent.

The Presario's neat, compact minitower case sits comfortably on the desktop, and the system's JBL Pro speakers clip right on to the chassis. The case includes two easy-access buttons to raise and lower the volume. Another, labeled "Internet," starts up your Web browser. Unfortunately, the system's Compaq monitor leaves a lot to be desired, supporting a maximum refresh rate of only 60Hz at a resolution of 1,024x768.

Compaq's standard warranty consists of only one year of coverage, which is provided onsite. The generous software bundle includes Microsoft Works, Microsoft Money 98, Microsoft Bookshelf 98, Microsoft Encarta 98, Electronics Arts' Moto Racer, and Quicken Basic 98.

Consider Compaq's impeccable customer service, and you might be inclined to accept older technology for the privilege of owning a Compaq Presario. All in all, however, slow performance and limited features detract from this system's value.

Comtrade Screamer AGP XC6/233

With its Business Winstone 98 score of 19.5, Comtrade Computer's Screamer AGP XC6/233 offers performance we'd expect from a 266MHz system. Blazingly fast for its $1,499 direct price, the Screamer garners top honors on Winstone and shares top honors on 3D WinMark 98 with the Zenon Dream Media Plus. The system is one of three in this roundup that uses the 233MHz Pentium II and an AGP graphics card.

We liked the overall system and its individual components. Thanks at least in part to its spacious 6.4GB IBM Deskstar 5 DHEA-36480 Ultra DMA hard drive, the Screamer AGP performed exceptionally well on our Business Disk WinMark 98 test, scoring 1,330. Oddly, Comtrade formats the drive in two partitions—one 5.8GB partition and one 600MB partition. But there's no doubt that the drive is fast and of good quality, and that high disk speed helps explain this systems' strong overall performance.

For graphics, the system uses the speedy Diamond Viper V330 AGP graphics card. The Viper V330 helped give the Screamer AGP its impressive 3D WinMark 98 score of 440. The system also performed well on our 2-D graphics tests, scoring a field-leading 125 at 1,024x768 with 65,536 colors. It sailed through our Video Playback tests without dropping a frame, and its CPU utilization remained under 50 percent even when the image was scaled to full screen. We also liked the system's SunView DX-1568 monitor. With a viewable area measuring 13.8 inches diagonally, the monitor offers a sharp picture, decent controls, and rock-solid refresh capabilities.

A generic ISA sound card based on the Yamaha OPL-3 chip and a pair of Juster AC-691Ns speakers come with the system. Neither piece is anything to brag about, but both will get the job done. The Screamer AGP includes a voice-, speakerphone-, and Caller ID-capable 56.6Kbps Apex Data fax modem.

Comtrade and Zenon use the same beige midtower case; it offers five accessible drive bays and one internal bay. Inside the Screamer AGP, the Gigabyte GA-686LX motherboard offers plenty of room for expansion. Built around Intel's 440LX AGPset, the board includes four DIMM memory slots. You'll also find three PCI slots, two ISA slots, and one PCI/ISA slot.

The bad news with this system is that its value lies almost completely in its hardware. Our review system arrived mislabeled, with a sticker on the back directing us to plug the mouse into the wrong port. This oversight could cause confusion for a computer novice. Additionally, the setup directions in the manual seemed geared toward systems that were significantly different than the computer in front of us. The system's software bundle consists of only Webster's Encyclopedia Multimedia CD, and Comtrade's warranty covers parts and labor for only one year. Technical support is available six days a week for a total of 69 hours.

First-time buyers might have difficulty with this system's less than user friendly setup directions, but people comfortable with PCs will find the Comtrade Screamer AGP XC6/233 more than ready for work or play. A bigger software bundle and greater attention to setup detail would make the good deal on this system even better.

MAYO HEALTH
MEDICINE IN SPACE

Comtrade Screamer AGP XC6/233, CyberMax MaxMedia 4

CyberMax MaxMedia 4

The CyberMax MaxMedia 4 unquestionably represents as good or better a value than any other system in this roundup, particularly when you factor in its 17-inch monitor and its DVD-ROM drive and decoder board. Whether this system is for you should depend in part on how much importance you place on 3-D graphics, which is hardly a strength of this system. This MaxMedia 4 is based on the Cyrix 6x86MX PR233 and sells for $1,499 in the configuration we tested.

This CyberMax offering builds on a Biostar motherboard that uses the Intel 430TX chip set. Buyers who want an AGP system will need to opt for one of the CyberMax's 440LX-based competitors.

The system posted a Business Winstone 98 score of 17.4, spot on average for this group. Thanks partly to its STB Nitro 3D PCI graphics card, which is based on S3's Virge/GX chip, the CyberMax scored above average on Business Graphics WinMark 98 and dropped no frames on our Video Playback tests. On 3D WinMark 98, however, the Nitro 3D offered very little acceleration. The MaxMedia 4 managed a 3D WinMark 98 score of only 43, which is about one-tenth the score of the two fastest 3-D results of the roundup.

With its 2x DVD transfer rate, Toshiba's SD-M1102 DVD-ROM drive promises better DVD-ROM performance than earlier Toshiba DVD-ROM models, though this shouldn't affect playback of DVD-Video titles. Users who wish to watch DVD-Video

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Common Features: 17" .26dpi SVGA Monitor with Digital Control • 440LX Main Board w/AGP & USB • 56K Voice/Fax/Data Modem • 1.44MB 3.5"FD • Mid Tower w/PS • Microsoft Intellimouse • 104-key Win95 Keyboard • MS Windows 95w/CD & Manual • Desktop Microphone • Grolier Encyclopedia & Game on 10 CDs • Upgrade to 19" for $280

ADV Professional System

- 64 MB SDRAM 10ns
- ATI 8MB Xpert@Work 3D AGP Video
- 4.3 GB Ultra-Wide Hard Drive & Adaptec 2940 UW
- 32X SCSI CD-Rom
- Creative Lab Sound Blaster AWE 64
- Premium satellite/Subwoofer Sound System
- IOMEGA 100MB IDE Zip Drive

Intel Pentium® II Processors

233 MHz	$1,918	333 MHz	$2,218
266 MHz	$1,968	350 MHz	$2,338
300 MHz	$2,098	400 MHz	$2,538

ADV 3-D Multimedia System

- 32 MB SDRAM 10ns
- ATI Xpert@Work 4MB 128Bit 3D AGP Video
- 6.4 GB Ultra DMA/33 Hard Drive
- 32X CD-Rom Drive
- Creative Lab Sound Blaster AWE 64
- Premium Satellite/Subwoofer Sound System
- Lotus SmartSuite CD

Intel Pentium® II Processors

233 MHz	$1,538	333 MHz	$1,838
266 MHz	$1,588	350 MHz	$1,948
300 MHz	$1,718	400 MHz	$2,148

ADV Ultra Multimedia System

- 64 MB SDRAM 10ns
- ATI 4MB Xpert@Work 128-BIT 3D AGP Video
- 8.4 GB Ultra DMA/33 Hard Drive
- Diamond DVD w/MPEG-II & 32X CD-Rom
- Creative Lab Sound Blaster AWE 64
- Premium Satellite/Subwoofer Sound System

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Intel Pentium® II Processors

233 MHz	$1,905	333 MHz	$2,205
266 MHz	$1,955	350 MHz	$2,315
300 MHz	$2,095	400 MHz	$2,515

Common Features: 15" .28dpi SVGA Monitor with Digital Control • 56K Voice/Fax/Data Modem • 1.44MB 3.5"FD • Mid Tower w/PS • MS Compatible Mouse • 104-key Win95 Keyboard • MS Windows 95w/CD & Manual • Desktop Microphone • Lotus SmartSuite CD

ADV Value Multimedia System

- 440LX Motherboard with AGP & USB
- 32 MB SDRAM 10 NS
- ATI 4MB 3-D Expression Video
- 4.3 GB Ultra DMA/33 Hard Drive
- 24X CD-Rom Drive
- Yamaha 3D Wavetable Sound
- 200 Watt Stereo Multimedia Speakers

Intel Pentium® II Processors

233 MHz	$1,109	333 MHz	$1,409
266 MHz	$1,159	350 MHz	$1,529
300 MHz	$1,289	400 MHz	$1,729

ADV 3-D Multimedia + TV System

- 440LX Main Board with AGP & USBs
- 32 MB SDRAM 10ns
- ATI All-in-Wonder Pro 4MB AGP w/TV Tuner
- 6.4 GB Ultra DMA/33 Hard Drive
- 24X CD-Rom Drive
- Creative Lab Sound Blaster AWE 64
- Premium satellite/Subwoofer Sound System

Intel Pentium® II Processors

233 MHz	$1,376	333 MHz	$1,676
266 MHz	$1,426	350 MHz	$1,796
300 MHz	$1,556	400 MHz	$1,976

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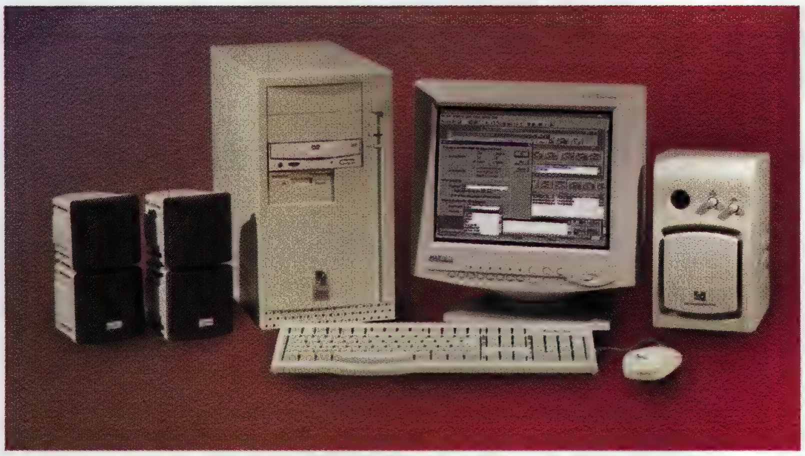

Zenon Dream Media Plus

movies may decide to attach the system to their TV: The included Quadrant CineMaster MPEG-2 decoder board provides an S-Video-out connector. The CineMaster board uses VGA-inlay technology to send uncompressed video across the PCI bus. Unfortunately, the system comes with no DVD-ROM titles.

Of these five systems, only the MaxMedia 4 comes with a 17-inch monitor—the Mag InnoVision 720V^2. This monitor delivers a clear, pleasant picture that's easily adjusted using the onscreen menu display. The MaxMedia 4's audio subsystem also rates as a strength: CyberMax pairs an Ensoniq AudioPCI audio card with a three-piece Altec Lansing ACS45 speaker system. The combination provides ample bass and pleasingly clear midrange and high tones.

Five accessible bays grace the front of the MaxMedia 4's beige midtower case. Inside, the Biostar motherboard has four SIMM and two DIMM memory slots, with one DIMM slot occupied by the system's 32MB of SDRAM. In addition, the motherboard has two ISA and four PCI expansion connectors plus a shared PCI/ISA slot. An internal drive bay holds the 4.3GB Western Digital Ultra DMA hard drive.

Overall, nice touches abound on this system. The package includes a folder of introductory materials such as a setup guide and a list of company phone numbers. And CyberMax provides an extensive collection of software, which includes Corel WordPerfect Suite 8, Blockbuster Entertainment's Guide to Movies and Videos, Compton's Interactive Encyclopedia 1997, and many other packages.

The system also comes with a reassuring warranty: CyberMax covers parts for three years and provides free onsite labor for one year for circumstances that warrant it. Should failed parts need to be exchanged during the three-year warranty period, CyberMax pays shipping both ways. And the company's phone support is available 24 hours daily.

With its 17-inch monitor, DVD-ROM subsystem, and capable audio components, the CyberMax MaxMedia 4 shows a serious commitment to multimedia. Buyers should also appreciate the system's software bundle and CyberMax's ample support. Better 3-D acceleration would make this excellent deal nearly irresistible.

PRODUCT LISTING

ABS LX Supreme 3D 3

ABS Computer Technologies
9997 E. Rose Hills Rd.
Whittier, CA 90601
800-876-8088; 562-695-8823
www.abscomputer.com
Direct Price: $1,379

Compaq Presario 4540

Compaq Computer Corp.
10251 N. Freeway
Houston, TX 77037
800-888-2004; 281-514-6864
www.compaq.com
Avg. Mail-Order Price: $1,348

Comtrade Screamer AGP XC6/233

Comtrade Computer
1215 Bixby Dr.
City of Industry, CA 91745
800-969-2123; 626-961-6688
www.comtrade-pc.com
Direct Price: $1,499

CyberMax MaxMedia 4

CyberMax
133 N. Fifth St.
Allentown, PA 18102
800-443-9868; 610-770-1808
www.cybmax.com
Direct Price: $1,499

Zenon Dream Media Plus

Zenon Computer
18343 E. Gale Ave.
City of Industry, CA 91748
800-899-6119; 626-935-1860
www.zenontech.com
Direct Price: $1,399

Zenon Dream Media Plus

Zenon built its business by offering relatively new technology at low prices. The Dream Media Plus serves as a good example: For a direct price of $1,399, the system offers up a 233MHz Pentium II processor, a BCM motherboard based on the Intel 440LX chip set, an STB Velocity 128 AGP graphics card, and a DVD-ROM drive and decoder board.

The STB Velocity 128 helped the Dream Media score 434 on 3D WinMark 98, putting it in a tie for first place. On most other tests, however, the system performed average or below par. For instance, on Business Winstone 98, the Dream Media scored 17, just about average for this roundup. The system's Business Graphics WinMark 98 scores were well below par for this group. The 4.3GB Maxtor hard drive yielded a midrange Business Disk WinMark 98 score of 1,150.

The Dream Media comes with the Pioneer DVD-101 drive—one of the older DVD-ROM drives on the market. The drive reads CD-ROMs at a rate equivalent to a 10x CD-ROM drive, so we expected it to score relatively low on CD-ROM WinMark 98. Zenon pairs the drive with the STB DVD Theater MPEG-2/AC-3 decoder card. According to a spokesman, Zenon will bundle some sort of DVD demonstration disc with the system, though at press time it wasn't clear which disc that would be.

Zenon ships a MaxTech XT 5871 15-inch monitor with the system. The monitor has a 14-inch viewable area and is capable of a maximum refresh rate of only 75Hz at a resolution of 1,024x768. On our Video Playback tests, the Dream Media performed adequately, though it did drop a few frames while playing the clip at its native size. At both native and scaled sizes, the picture appeared a little sparkly, almost as if there were some interference present.

The Dream Media uses the same case as the Comtrade Screamer. For audio, the system pairs a 4Q Super Subwoofer speaker system with an Aztech PCI sound card based on the S3 SonicVibes chip. The 4Q Super Subwoofer system provides adequate bass response for game sound tracks.

Zenon bundles two software packages with the system: Lotus SmartSuite 97 and Webster's World Encyclopedia. For documentation, the company includes only the OEM manuals, omitting any system manual and setup instructions. The company backs the system for only one year under the standard warranty, and telephone support is available six days a week for a total of 67 hours.

The Zenon Dream Media Plus hardly ranks as the fastest of these five systems, and it lacks a lengthy warranty period or much in the way of help for new users. For home buyers who know their way around a PC, however, this system's excellent 3-D performance and DVD-ROM subsystem may make it a dream come true.

LIST-PRICE LIMBO

At the risk of stating the obvious, $1,499 does indeed buy a lot of PC. And if history is any indication of the trend, these systems will sell for less still by the time you read this article: As Intel introduces its 350MHz and 400MHz Pentium IIs, it will likely lower the price of its older, slower versions, including the 233MHz Pentium IIs used in three of these systems. And of course Cyrix and AMD will likely respond in kind, or even beat Intel to the punch. Opting for a system based on one of Intel's newer processors might make you feel like the luckiest kid on the block. But if you'd rather save some of your allowance for other pleasures, then one of these low-cost systems should give you ample processing power for a while to come. ▼

WORTH NOTING

☞ **Comtrade Screamer AGP XC6/233:** Excellent 2-D and 3-D performance and loads of hard drive space help make this 233MHz Pentium II-based AGP system a favorite, despite its small software bundle and one-year warranty.

☞ **CyberMax MaxMedia 4:** This Cyrix 6x86MX PR233-based system offers little 3-D acceleration, but its 17-inch monitor, DVD-ROM subsystem drive, and capable audio components deliver exceptional value.

☞ **Zenon Dream Media Plus:** With its DVD-ROM subsystem and STB Velocity 128 AGP display adapter, this 233MHz Pentium II-based system offers plenty of goods for home users.

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Now it's safe for everyone to use a Shotgun.

SHOTGUN™ TECHNOLOGY

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Why is everyone fired up over the new 56K standard? Because now, Diamond modems not only support the new ITU V.90 standard, but they include Shotgun™ technology—the double-barrel approach to increasing your modem speed up to 112K!

V.90

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SHOTGUN™ TECHNOLOGY

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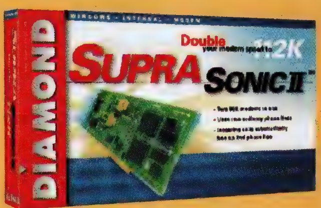

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- *Two 56K modems integrated on a single board*
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DELL DIMENSION XPS D333 **333MHz PENTIUM® II PROCESSOR** FEATURING MMX™ TECHNOLOGY	**DELL DIMENSION XPS D300** **300MHz PENTIUM II PROCESSOR** FEATURING MMX TECHNOLOGY	**DELL DIMENSION XPS D266** **266MHz PENTIUM II PROCESSOR** FEATURING MMX TECHNOLOGY	**DELL DIMENSION XPS D233** **233MHz PENTIUM II PROCESSOR** FEATURING MMX TECHNOLOGY
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- Encarta 98 Encyclopedia
- Money 98
- Works 4.5
- Greetings Workshop 2.0
- Puzzle Collection

Software Upgrades:

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266MHz PENTIUM II PROCESSOR
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Common features listed above plus:

- 64MB ECC EDO Memory
- 4GB Ultra-Wide SCSI-3 Hard Drive (7200 rpm)
- APC Smart-UPS 700 Power Supply
- 6 Expansion Slots: 3 PCI/3 EISA
- 6 Drive Bays: 3 External 5.25"/ 3 Internal 3.5"
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- 7x24 Dedicated Server Hardware Technical Telephone Support

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NEW DELL INSPIRON 3200 D266XT

266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:

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- 144MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
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- 56K Capable‡ K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
- 6.9 Pounds*

★ *Inspiron Port Replicator, add $159.*

★ *3Com 10/100 Fast Ethernet Adapter, add $169.*

$3999

Business Lease◊: $147/Mo., 36Mos.
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NEW DELL INSPIRON 3200 D266XT

266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:

- 13.3" XGA Active Matrix TFT Display
- 64MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capable‡ K-Flex Modem
- MS Office 97 Small Business Edition
- 6.9 Pounds*

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★ *Upgrade to MS Office 97 Professional, $199.*

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DELL INSPIRON 3000 M233XT

233MHz PENTIUM PROCESSOR
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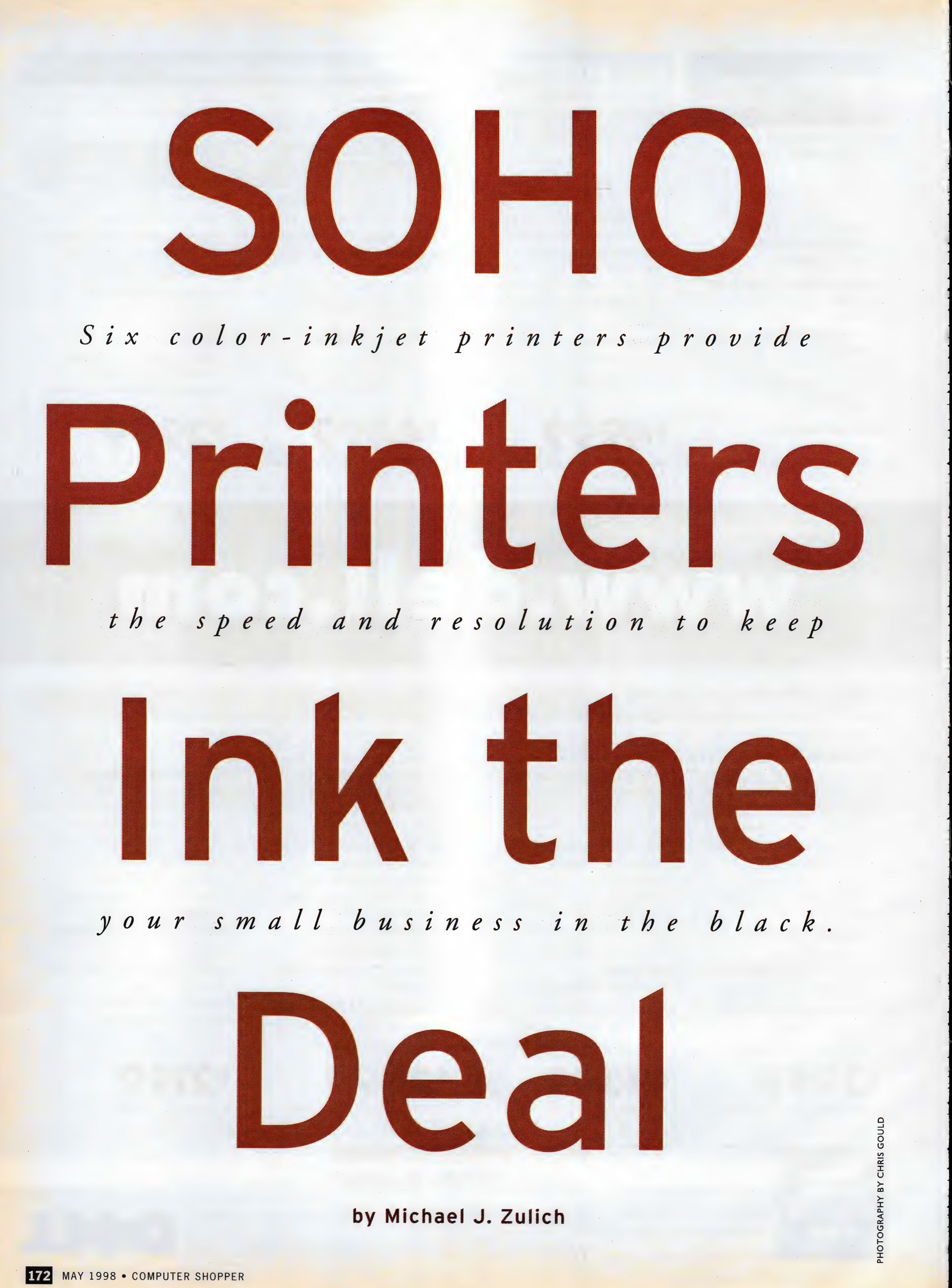


SOHO Printers Ink the Deal

Six color-inkjet printers provide the speed and resolution to keep your small business in the black.

by Michael J. Zulich

PHOTOGRAPHY BY CHRIS GOULD

EPSON
Stylus
LEXMARK
7200V
HEWLETT PACKARD
DeskJet 890C
Professional Series
Kodak

Color Inkjet Printers

It's hard to dispute the idea that color can add considerable impact to almost any brochure, chart, graph, or presentation. Nevertheless, for business printing—where text still constitutes the majority of print output—the monochrome laser printer has long reigned, and for good reason. The speed, quality of text printing, and the price of laser printers have historically outstripped the monochrome capabilities of affordable color inkjets. Lasers beware, though: Low-cost color inkjets have taken the home-printing market by storm, and their higher-end cousins are poised to do the same for small businesses.

Canon BJC-7000
Epson Stylus Color 800

Adding a color inkjet printer to your small- or home-office equipment is becoming a more reasonable and affordable option, particularly if you already have a work horse laser printer installed for cranking out large text documents.

With that in mind, we decided to look at color inkjet printers that can compete with low-cost laser printers for your SOHO dollars. We tested five color inkjet printers that range in price from $400 to $499, and a sixth larger-format printer that rings up at $799.

GETTING DOWN TO BUSINESS

The average purchase price and operating cost—in monochrome mode—of many of these inkjet printers approaches that of 600-dpi personal laser printers. The lasers we looked at in our March feature range from 2 to 3 cents per page, compared with the 2.5 to 5 cents per page these units will run you. (See "Workhorse Lasers for Less," March 1998, p. 186.) You sacrifice monochrome performance—we measured the lasers at around 4.4 to 7 ppm, and these color inkjets clock in at 2 to 4 ppm—but in exchange, you get color capability when you need it.

Epson Stylus Color 1520
HP DeskJet 890Cse

In addition, inkjets are more energy-efficient and quieter than lasers. Inkjet printers use less than 10 watts in standby mode and less than 60 watts during printing, compared with approximately 25 watts in standby mode and as much as 500 watts during printing for lasers.

Two of the printers we received—the Epson Stylus Color 1520 and the HP DeskJet 1000Cse—are medium-format printers, and can print on paper as large as 17x22 inches (referred to as C-size) and 11x17 inches (referred to as B-size or tabloid), respectively. In the case of the Stylus Color 1520, you pay a premium for its flexibility: Its average mail-order price of $799 marks the ceiling for the group, and it costs $300 more than the DeskJet 1000Cse. The rest of the printers reviewed are standard letter-/legal-size-paper printers, with prices ranging from $400 to $478.

The most expensive of the standard-size printers is the Lexmark 7200V Color Jetprinter. The slight premium you pay for the 7200V buys you a built-in Snappy Video Snapshot video-capture device, which lets you print directly from an NTSC video source. Lexmark also offers the same printer without the video-capture device, at a lower price.

Although the printers we received don't vary widely in price (except for the larger-format Epson), they do cover the map when it comes to resolution. They range from 600x600 dpi (360,000 dots per square inch) for the HP models to a whopping 1,200x1,200 dpi (1,440,000 dots per square inch) for the Lexmark. The Canon printer offers 1,200x600-dpi resolution (720,000 dots per square inch), and the two Epson printers offer up an admirable 1,440x720 dpi (1,036,800 dots per square inch).

Resolution results from a combination of dot size and dot spacing, so a 600-dpi-rated printer needn't have a 600-dpi printhead. Manufacturers increase effective resolution through multiple passes of the printhead. For example, a 600-dpi printhead can produce 1,200-dpi output through two passes. The first pass lays down half the required dots, and the second pass completes the image. To attain its 1,440-dpi resolution, the Epson printers use eight passes of a 180-dpi printhead. A 300-dpi printhead like that of the HP printers needs two passes to attain the maximum 600-dpi output. Interestingly, we found no correlation between print speed and the number of passes a printer needs to produce the complete image. Driver efficiency and the printer's buffer have as much to do with the printer's speed as the number of passes the printhead takes.

When looking at resolution specs, remember you're more likely to perceive the effects of higher resolution on small text and line art than on images. For continuous-tone graphics and photographs, color depth makes more of an impact on output quality than does resolution—at least in the resolution ranges we're looking at here. All the printers reviewed use four primary inks (cyan, magenta, yellow, and black); the Canon and the Lexmark also support the addition of lighter-density inks—light cyan, light magenta, and light yellow—which bolsters the number of midtone shades the printer can achieve when printing photographic images.

Each printer's driver also gives you control over the output and its quality. For example, you can change the halftoning technique as well as adjust color intensity, contrast, brightness, and hue. All the drivers let you select multiple copies, but only the HP drivers support n-up and duplex printing. N-up printing is a time- and resource-saving feature that fits multiple pages of your document onto one sheet of paper. Though you can force any printer to print on both sides of a sheet of paper, HP's driver provides onscreen duplexing instructions, making the process simple and nearly foolproof. The Canon driver offers a unique feature that will reduce your output to 10 percent of its original size or enlarge it to 400 percent.

PHOTO FINISH

Any of these inkjet printers will do an adequate job on graphics and photo images. The printer you deem superior at producing photographic images often comes down to a matter of personal aesthetics. For example, although we preferred the Lexmark printer's photo output to that of the Epson Stylus Color 800, some users might find the Epson's brighter skin tones more appealing.

FACT FILE

Category Tested	**SOHO Color Inkjet Printers**
Price Range	$400 to $799
Minimum Configuration	4.5-ppm monochrome printing, 1-ppm color printing, 600x600-dpi resolution
Companies Included	Canon Computer Systems, Epson America, Hewlett-Packard Co., Lexmark International

No matter which printer you choose, however, photo output won't come cheap. The best printouts requires special paper, which can range from 8 cents to $1.50 per page. (See the sidebar "Picking Paper.") Furthermore, the cost of color-ink cartridges alone will run you anywhere from Canon's modest 5.6 cents per page to Lexmark's whopping 17 cents per page. And although the fastest of these printers is acceptably fast at printing monochrome text, when you start printing in color, these units can be downright slow.

Ultimately, it's the combination of good text performance and color photo capabilities that makes these color inkjets so appealing. As you read the reviews and survey results from our roundup, keep in mind what percentage of your work will be dedicated to each type of printing. If the majority of what you print consists of monochrome text, for example, a printer with slow color performance and high color costs may still be acceptable. Likewise, if you plan to use the printer mainly for photographic output, be sure to examine our photo print samples closely and factor photo-paper costs into your price range.

CANON BJC-7000

Billed as Canon's top-of-the-line inkjet printer, the BJC-7000 uses the company's new Plain Paper Optimized Printing (P-POP) technology, which theoretically lets it print on plain paper with greater detail. At an average mail-order price of $441, it's competitively priced; at 5.6 cents per sheet, it also has the lowest cost per page. But its quality comes at the cost of its performance.

Canon's P-POP precoats the paper with a clear solvent the company calls the Ink Optimizer. Rather than covering the entire page, P-POP covers only those areas targeted to receive ink. The optimizer operates like a primer, sealing the paper fibers to prevent bleeding and facilitate uniform ink absorption. But P-POP seems to contribute little to the printer's plain-paper print quality, which is not much better than that of any other unit here and worse than that of many. Text exhibits some jaggedness, which is surprising given the printer's 1,200x600 resolution. And although P-POP lives up to its water-resistance claims, it's not smudge-resistant.

On specialty paper, the Canon does much better. Text and line art print exceptionally well on coated paper, and the BJC-7000 creates excellent light tints and knockouts. Color photos tend to be slightly

Picking Paper

To measure performance and print quality under the best and worst conditions, we use three types of paper in our inkjet printer tests: Plain old 20-pound copier paper from Hammermill, the printer manufacturer's best-grade coated paper, and the manufacturer's glossy paper or film (depending on which they offer). As a practical matter, however, you don't always want to spend the money on—and often simply can't find—the printer vendor's own paper. We generated some pages from each printer using a variety of third-party alternatives to get a sense of what you'll sacrifice when the pinch is on your wallet.

One of the keys to selecting paper is brightness. Plain paper has a fairly rough surface, with peaks and valleys and pulp fibers jutting out everywhere. This serves to reduce the vibrancy of paper and inks by reflecting light randomly rather than coherently. Thus, the smoother the paper, the whiter it appears—assuming it's white, of course. For example, plain paper has a brightness value of 50 to 65; most inkjet papers have a brightness rating (noted on the paper's package) of 85 or higher. Also, the pulp fibers act like capillaries, bleeding ink away from sharp edges.

When we compared plain-paper pages with printouts on Georgia-Pacific MicroPrint Inkjet Paper (brightness of 87) and Hammermill Jet Print (brightness of 90+), we noticed that output quality differs trivially. But we saw a significant difference with brighter papers, namely Hammermill Laser Print (93 brightness) and HP LaserJet Paper (91 brightness). So if you're going to spend the 1.8 to 2 cents per page that a third-party paper will run you, spend it on the brightest paper you can find, printer technology notwithstanding.

Photo and glossy inkjet papers, on the other hand, don't provide a neat measure like brightness to guide you. Photographic print paper has a rough texture, somewhat like fine-grit sandpaper. This texture is necessary and provides a surface, or "tooth," for the ink to adhere to. Photographic print films, on the other hand, are smooth and resemble true photographic paper, such as the type you get from a traditional photofinisher. We found that third-party photographic papers, such as the Kodak Inkjet Photo Weight paper and the Hammermill JetPrint Ultra Gloss that we tried, seemed to work as well as those offered by the printer manufacturers.

Given the large price difference between third-party and vendor-supplied photo papers, this comes as good news. For instance, the JetPrint Ultra Gloss costs about 60 cents per page, and the Kodak InkJet Photo Weight paper costs about 66 cents per page. In contrast, vendor-supplied photo papers and films for the products in this article cost between 98 cents and $1.60 per page (with the sole exception of Canon's Glossy Photo Paper GP-201, which runs about 50 cents per page).

You only really need to stick with the manufacturer's paper for coated stock, which tends to be optimized for its printers' inks. ▼

COMPUTER SHOPPER BENCHMARKS (HIGHER SCORES ARE BETTER)

	Canon BJC-7000	Epson Stylus Color 800	Epson Stylus Color 1520	HP DeskJet 890Cse	HP DeskJet 1000Cse	Lexmark 7200V Color Jetprinter
PAGES PER MINUTE						
Microsoft Word 97	1.80	3.10	2.60	4.30	2.90	2.20
Microsoft Excel 97	0.75	0.64	1.80	0.66	0.74	0.68
Microsoft PowerPoint 97(Coated Paper)	0.10	0.37	0.39	0.14	0.22	0.27
Adobe Photoshop 4.0 (Glossy Film)	0.16	0.41	0.47	0.42	0.4	0.28
Adobe PageMaker 6.5 (Coated Paper)	0.15	0.48	0.53	0.20	0.25	0.57

high in contrast, but provide great detail in all but the deep shadows. The contrast problem seems to be the result of the driver's use of a patterned dither rather than a diffusion dither—yet the dither is not nearly as coarse as the typical pattern dither we've seen in previous Canon products. The BJC-7000 printed the gray-scale photo as composite black rather than process black. Unlike other products that behave similarly, this one couldn't hold the gray balance: The image appeared cyan-biased. The PowerPoint output, whether on coated paper or transparency, displays bright, saturated colors and good color transition from deep blue at the top to pale blue at the bottom. Unfortunately, clogging in some of the nozzles resulted in occasional banding.

The BJC-7000 is also the only printer in this feature to separate the color-ink tank from its printhead. This arrangement lowers the cost of color-cartridge replacement slightly, contributing to its remarkably low color cost per page. At 3.9 cents, however, its monochrome cost per page is the second-highest of the group.

The Canon BJC-7000 and the Lexmark are the only printers in this group that support photo inks in addition to standard CMY inks. The Canon's photo-ink cartridge uses six colors (cyan, magenta, yellow, photo cyan, photo magenta, and photo yellow) plus black.

Irrespective of the paper and the output print-quality settings, the BJC-7000 loses on performance. Its throughput fell below average on all tests—50 percent below average on the PowerPoint presentation. Since P-POP affects only plain-paper mode, we can't blame this slow performance on the added Ink Optimizer step.

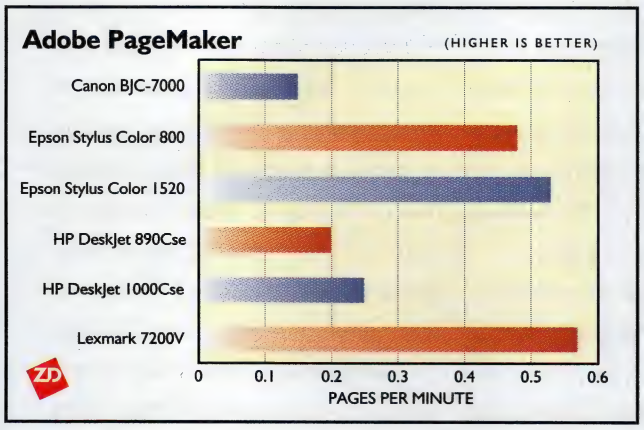
The BJC-7000 uses the standard inkjet printer layout: Paper feeds from the input tray at the top rear and exits at the output tray at the bottom front. Using the manual-feed slot at the rear of the printer gives the BJC-7000 a straight paper path.

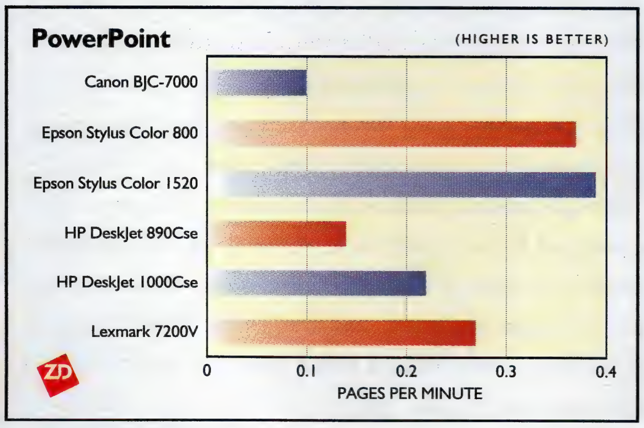
The Canon print driver makes selecting print parameters a snap. Just choose the icon that best describes your document's content, such as text, graphics, or photo, or select the auto icon and let the driver do the rest. You can override the settings associated with each icon for more control. Included with the printer is Canon Creative 3, an easy-to-use color-printing software suite.

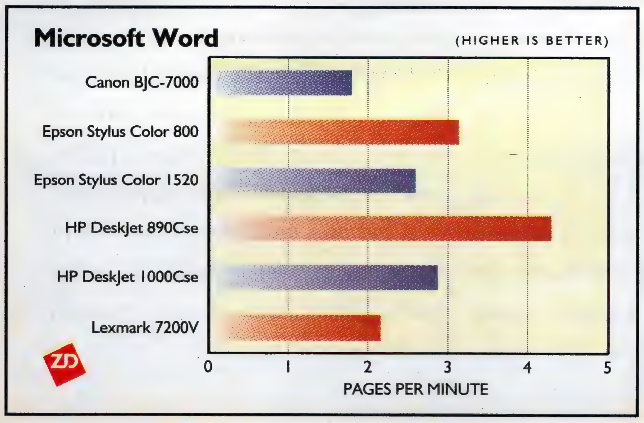
Slow performance and below-average plain-paper print quality make the Canon BJC-7000 less than ideal as a multipurpose printer. If you don't mind the added expense of specialty papers—which raises the printer's cost per page—you'll find it is a good choice for use as a graphics printer that can give you occasional photo-quality output.

EPSON STYLUS COLOR 800

High quality and low purchase price help the Epson Stylus Color 800 stand out among the printers reviewed here. As we've come to expect from the Stylus Color line, the 800 produces excellent graphics and photo prints. With an average mail-order price of $400, it qualifies as the least expensive printer in this feature, and its average monochrome cost per page of 2.5 cents ties with the price of its older sibling, the Epson Stylus Col-







How We Tested

We tested each inkjet printer on a Gateway 2000 G6-266, configured with a 266MHz Pentium II, the Intel 440LX chip set, and 32MB of SDRAM, running Windows 95 OEM Service Release 2. The printers were attached to our testbed via an IEEE 1284-compliant cable, with the printer port configured in Enhanced Parallel Port (EPP) mode. For all printers, we used the Win 95 drivers included with the units. We set Win 95 to start printing after the first page had spooled (Win 95's default mode) and ensured that virtual memory was configured for dynamic allocation. We rebooted the system between each run of each test.

To measure the performance and quality of the printers, we timed their click-to-clunk printing speed from Word 97, Excel 97, Adobe Photoshop 4.0, and Adobe PageMaker 6.5. The print speed with the Word document closely approximates the raw speed of the printer; the document consists solely of text. Our Excel spreadsheet contained typical Excel entries, plus an embedded chart, and we set Excel to squeeze the entire sheet onto a single page; this was designed to show typical business performance. With Photoshop, we used a photograph designed to test the printer's ability to reproduce flesh tones, saturated colors, earth tones, and shadows. Finally, the PageMaker file shows the type of performance you should expect when printing moderately complex documents; in addition to formatted text, it includes line-art, gray-scale, and color images.

The PageMaker document also included our output-quality samples. We examined details such as the clarity of type in sizes as small as four points, the smoothness of ultra-fine lines and curves (0.01 points and below), and the printers' ability to render gradient fills. ▼

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or 1520, for the lowest of the group.

Its overall output quality matches the Lexmark's (as well as the similarly designed 1520's) for the best of this bunch. The Stylus Color 800 produces superior graphics to the Lexmark, with smooth lines, smooth gradients, solid blacks, and excellent tints on all but the grays. But the 800 can't match the Lexmark's higher-resolution text output. It is crisp, but exhibits a slight bleed that is more pronounced on plain paper. Text at 360 dpi looks ragged around the edges regardless of the paper you print on; at 720 dpi, text quality on coated paper jumps to excellent, and plain-paper output improves as well. Though the 800's resolution goes as high as 1,440x720 dpi, the 720-dpi vertical resolution defines the real constraint on text and line-art quality relative to the Lexmark 7200V's 1,200x1,200 dpi. The printer's large bottom margin may also clip footers, as it did on our text test pages. The PowerPoint slide shows good color saturation at 720 dpi on coated paper, but the driver limits transparencies to 360 dpi, which drops their overall quality.

HP DeskJet 1000Cse
Lexmark 7200V Color Jetprinter

The Stylus Color 800 demonstrates excellent dynamic range and contrast, as well as great detail and color saturation. On the other hand, its skin tones appear slightly too bright compared with the Lexmark's. Unlike the Lexmark, it printed our gray-scale image as composite gray with a minor cyan cast, though in general, it held the gray balance well.

The printer performed slightly better than average overall, with a notable below-average time on our Excel test. It put in a mixed showing against both the Lexmark and the HP DeskJet 890Cse, its main competitors.

Like most inkjets, the easy-to-set-up, shoe-box-shaped Stylus Color 800 uses collapsible paper trays. Paper feeds from the input tray at the printer's top rear and exits the output tray at the lower front of the printer. Epson includes two easy-to-install ink cartridges, black and multipurpose CMY, which address all your color-printing needs. Once installed, the printer takes several minutes to charge the ink-delivery system. Unfortunately, we found that the automatic head-cleaning cycle did not keep the ink nozzles from clogging, forcing us to initiate additional head cleanings. (The slight banding exhibited by our print sample is a result of this nozzle clogging.)

The printer driver automatically sets resolution, image-enhancement options, and halftone pattern based on the selected paper type. Of course, you can override any or all of these settings, or create custom settings. One of several quirks in version 2.21 of the driver—which accompanied our unit—set plain-paper resolution to 720 dpi and turned off High Speed, which slowed throughput without improving quality. We ended up downloading version 2.23, which fixed this glitch. We recommend you do the same. The driver also includes a printer-status monitor written by Software 2000, which shows a set of horizontal bars that depict ink level in each cartridge. The same status monitor is used on the Stylus Color 1520, and a similar one is used on the Lexmark 7200V.

Given the Epson Stylus Color 800's high quality, solid performance, low price, and laser-competitive monochrome cost per page, we recommend it as a good color inkjet printer for most general SOHO purposes.

EPSON STYLUS COLOR 1520

The Epson Stylus Color 1520 is the most expensive printer of this group, selling for $799 on average by mail. You certainly get more for that money, though: The 1520 is the only C-size (17x22-inch) printer in its class. It also provides the highest horizontal resolution (1,440 dpi) of any larger inkjet printer costing less than $1,000 and is the only printer to offer the green-bar crowd the ability to feed continuous-form paper.

The Stylus Color 1520 uses the same cartridges as the Stylus Color 800; not surprisingly, the 1520's output quality ranks near that of the 800, and the 1520's per-page costs are an identically low 2.5 cents for monochrome and a high 8.3 cents for color. Like the Stylus Color 800, the 1520 produced sharp photo images with excellent dynamic range, though the skin tones appeared slightly warm compared with the Lexmark's. The black-and-white photo printed on the light side; as did the 800, the 1520 created a composite gray with a relatively good color balance. The 1520 also exhibited slight horizontal banding from the printhead. The color photo emerged sharp with excellent contrast. Text on plain paper showed some mild jaggedness, but quality improves drastically when you use coated papers and increase resolution to 720 dpi. The driver limits transparencies to 360 dpi, so their quality is not as good, but still satisfactory. This unit makes a good CAD or technical-drawing output device: It produces smooth curves, though we noticed a bit of breakup on ultrafine lines.

Like the Stylus Color 800, the 1520's ink-delivery system takes some time to charge. Epson warns that this can take as long as seven minutes, though it didn't seem to take that much time. And you don't sacrifice any daily performance with the Stylus Color 1520: It printed the Excel worksheet and chart twice as fast as the rest of the crop—an important benchmark if you'll be using this printer to output large spreadsheets. Its Word performance was lackluster compared with the rest of the group's, but on nearly all the other tests, it led the pack and ran a close second to the Lexmark 7200V with the newsletter.

In addition to the ink cartridges, the Stylus Color 1520 has the same print driver as the Stylus Color 800. Our test unit came with driver version 2.2, which worked flawlessly. The driver is easy to use, and Epson has removed most of the difficult decisions: Just select your paper type, and the driver automatically defaults to the appropriate resolution and halftoning.

One of the two tabloid-capable printers in this roundup—the other is the HP DeskJet 1000Cse—the Stylus Color 1520 is slightly more than 2 feet wide, clearly the largest of the printers reviewed. Epson designed a built-in slot for optional interface boards, including Ethernet and serial, in addition to the standard parallel interface. As with HP's design, the Stylus Color 1520 inputs and outputs cut-sheet paper from trays on the lower front of the printer. The manual-feed slot, located on the rear of the printer, provides a straight paper path. This same slot is used for feeding continuous-form paper as well.

The Epson Stylus Color 1520 delivers respectable output quality at a fairly quick rate and is currently the only less-than-$1,000 option for 17x22-inch inkjet printouts. If you need tabloid or larger printing now, and can't wait to see how the forthcoming HP DeskJet 1120Cse performs, the Stylus Color 1520 is a good choice.

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predecessors, fueling HP's claims of greater color depth and lower apparent grain for continuous-tone images. Along with higher output quality, HP claims faster speeds for this small, business-oriented printer. Though its quality and performance may improve upon the DeskJet 870Cse it replaced last fall, this $449-average printer is a midrange performer compared with the rest of this group.

The DeskJet 890Cse incorporates two image-enhancing print techniques: PhotoREt and ColorSmart II. PhotoREt controls the color cartridge's printhead, firing smaller dots of ink than previous HP printers did (a claimed 10 picoliters). These smaller dots let the printer deposit as many as 16 drops of ink per pixel for increased color combinations. ColorSmart II uses an HP software algorithm to interpolate low-resolution images to higher resolution, theoretically eliminating muddiness and the jaggies.

In practice, its monochrome output quality is good. In fact, we found the DeskJet 890Cse's text quality on plain paper to be better than all but the Lexmark 7200V's. On laser or inkjet-quality paper, the black-and-white photo in our PageMaker newsletter (which this unit prints as composite gray) exhibits good detail and excellent gray balance, though it carries on the HP tradition of low contrast.

Color print quality isn't as commendable. PhotoREt doesn't keep the DeskJet 890Cse from producing the warm skin tones characteristic of many of the DeskJets, and our test photo printed from Photoshop emerged grainy and low in contrast. The photos embedded in the PageMaker newsletter test looked better, but also appeared flat and low in contrast. We found graphics quality similarly mixed: The fine curves came out too heavy because of the 600x600-dpi resolution, and we saw some bleeding on the knockout text and splotchy blacks. Nevertheless,

(continued on page 184)

FEATURES COMPARISON

	Canon BJC-7000	Epson Stylus Color 800	Epson Stylus Color 1520	HP DeskJet 890Cse	HP DeskJet 1000Cse	Lexmark 7200V Color Jetprinter
AVG. MAIL-ORDER PRICE	$441	$400	$799	$449	$499	$478
PHYSICAL CHARACTERISTICS						
Technology*	Thermal	Piezo	Piezo	Thermal	Thermal	Thermal
Rated Speed Black/Color* (ppm)	5.0/3.5	8.0/7.0	6.0/5.0	7.0/1.5	4.5/1.0	8.0/3.0
Max. Resolution*	1,200x600	1,440x720	1,440x720	600x600	600x600	1,200x1,200
Number of Black Nozzles/Nozzles per Color*	608/80	128/64	128/64	300/192	300/192	208/192
Max. Paper Size	Legal	Legal	C-size	Legal	B-size	Legal
Rated Paper-Tray Capacity (Input/Output)*	130/130	100/30	100/30	150/50	150/50	150/25
Straight-Through Paper Path	Yes (manual feed)	No	No	No	Yes	No
Ports						
Bidirectional Parallel/Macintosh Serial	Yes/no	Yes/yes	Yes/yes	Yes/no	Yes/no	Yes/no
Network*	Ethernet (optional)	Ethernet, LocalTalk (both optional)	Ethernet, LocalTalk (both optional)	Ethernet (optional)	None	Ethernet (optional)
Max. Dimensions (HWD, Inches)*	12.3x18.3x18.4	7.0x18.7x10.8	8.0x26.2x20	8.9x17.5x15.6	8.8x22.8x26.3	12.0x17.0x10.5
Weight (Pounds)*	13.1	14.3	25.5	14.3	20.7	9.5
CONFIGURATION						
Driver Version Tested	4.01	2.21	2.2	11.0-DJ870/890	9.0.16.2	1.0.0.3
Driver Supports Watermarks/Booklets	No/no	No/no	No/no	No/yes	No/yes	No/no
Driver Supports N-up Printing	No	No	No	Yes	Yes	No
PostScript Option	Software	Software	Software	None	None	None
CONSUMABLES						
Separate Ink Tank and Printhead	Yes	No	No	No	No	No
Color Primaries	C, M, Y, K, light cyan, light yellow, light magenta	C, M, Y, K	C, M, Y, K	C, M, Y, K	C, M, Y, K	C, M, Y, K
Included Cartridges	Black, color, photo	Black, color	Black, color	Black, color	Black, color	Black, color
Optional Cartridges	None	None	None	None	None	Photo
Avg. Mail-Order Cost of Cartridges						
Color	$33	$25	$25	$29	$30	$34
Monochrome	$35	$25	$25	$28	$28	$28
Rated Ink-Cartridge Capacity* (Pages)						
Color (15% Coverage)	640	300	300	422	450	200
Monochrome (5% Coverage)	900	1,000	1,000	840	850	600
Avg. Mail-Order Cost of Printhead	$19	NA	NA	NA	NA	NA
Printhead Capacity* (Pages, 20% Coverage)						
Color	4,000	NA	NA	NA	NA	NA
Monochrome	900	NA	NA	NA	NA	NA
Cost per Color Page	5.6 cents	8.3 cents	8.3 cents	6.9 cents	6.7 cents	17 cents
Cost per Monochrome Page	3.9 cents	2.5 cents	2.5 cents	3.3 cents	3.3 cents	4.7 cents
Cost per Photo Page	10.4 cents	NA	NA	NA	NA	25 cents
Rated Max. Paper Weight (Pounds)*	30	24	24	36	36	24
Handles Card Stock/Envelopes/Transparencies	Yes/yes/yes	Yes/yes/yes	Yes/yes/yes	Yes/yes/yes	Yes/yes/yes	Yes/yes/yes
SOFTWARE INCLUDED						
Applications	Canon Creative 3, WebRecord	None	None	iPublish, By Design Office	Corel PrintHouse Select, My Color Marketing Materials	Photo Printing Kit (LivePix SE, PhotoImpression, PhotoPrinter, PhotoFantasy, GreetingCardMaker, T-Shirt DesignMaker), WebPrinter
SERVICE AND SUPPORT*						
Standard Warranty (Parts and Labor)	One year	Two years	Two years	One year	One year	One year
Post-Warranty Support Policy	Free via Web site, $24.99 per call	Toll-free tech support calls	Toll-free tech support calls	$2.50 per minute, $25 maximum	$2.50 per minute, $26 maximum	One- to five-year extended warranties
Toll-Free Technical Support	Yes	Yes	Yes	No	No	Yes
Live Technical Support Hours (ET)	8 a.m. to 10 p.m. weekdays, noon to 6 p.m. Sat.	9 a.m. to 11 p.m. weekdays, 10 a.m. to 7 p.m. Sat.	9 a.m. to 11 p.m. weekdays, 10 a.m. to 7 p.m. Sat.	8 a.m. to midnight weekdays, 11 a.m. to 6 p.m. Sat.	8 a.m. to midnight weekdays, 11 a.m. to 6 p.m. Sat.	9 a.m. to 9 p.m. weekdays, noon to 6 p.m. Sat.
Online Technical Support	Web	Web	Web	Web	Web	Web

* According to vendor NA = Not applicable

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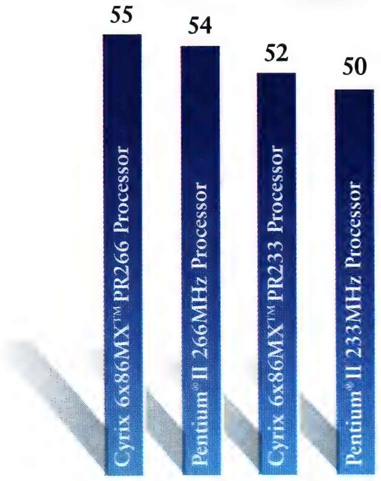
Price vs. *Performance*

Windows® 95/ Winstone 97



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C506 **$1234**

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Pentium® II 233MHz...........$1331

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- ❖ K56flex™ Voice/Fax Modem w/ Speakerphone (V.90-ready)
- ❖ Ensoniq AudioPCI™ 32-bit Sound
- ❖ Altec Lansing ACS45 Powercube Speakers & Subwoofer
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C507 **$1398**

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C508 **$1776**

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Pentium® II 300MHz...........$1931
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Max It!

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- MaxVision 19" (18" VA) Color Monitor by CyberMax
- Toshiba DVD-ROM II (20X CD-ROM)
- K56flex™ Voice/Fax Modem w/ Speakerphone
- Ensoniq AudioPCI™ 32-bit Sound
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C509 **$1995**

business lease $70

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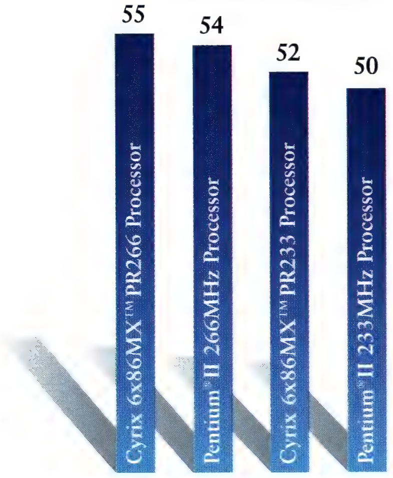

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business lease $51

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C512 **$1247**

business lease $44

6x86MX™ 266+................$1167
Pentium® II 266MHz...........$1292

Max It!

- Upgrade to MS Elite KB..........$39
- Upgrade to 6.4GB HDD..........$49

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C515 **$1972**

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Pentium® II 266MHz...........$1842
Pentium® II 333MHz...........$2094

Max It!

- Upgrade to MS Elite KB..........$39
- Upgrade to Intel740-4MB........$49

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- Intel BX Chipset
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- 32x Max EIDE CD-ROM
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- Ensoniq AudioPCI™ 32-bit Sound
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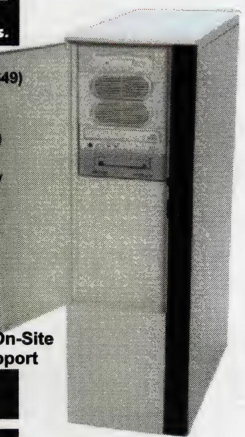

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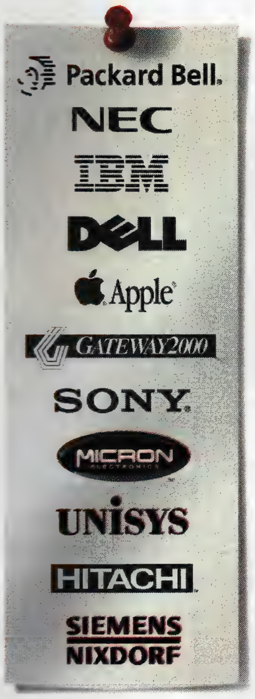

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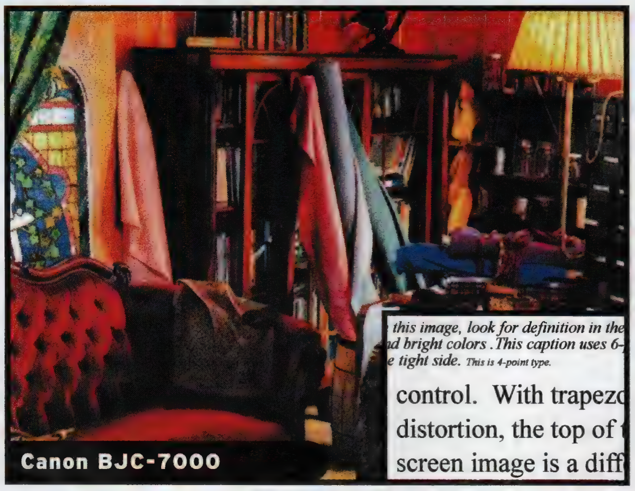
A PRINT SAMPLER

When judging these fragments of our output samples, pay attention to how well each printer holds detail in the shadow areas, and how crisply they print the six- and four-point caption text. To view the complete samples online, go to *www.cshopper.com*.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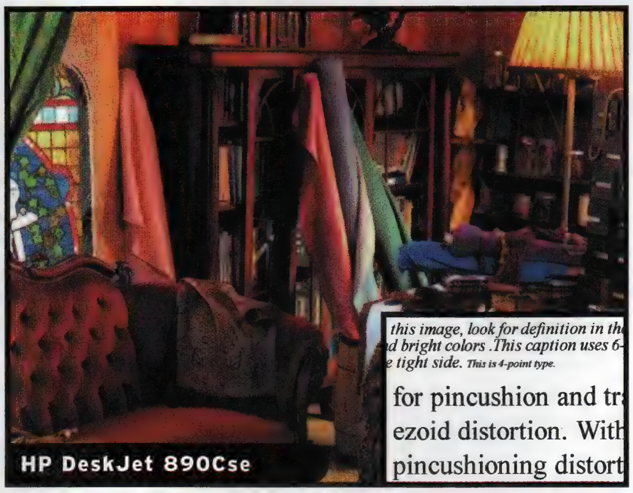
Canon BJC-7000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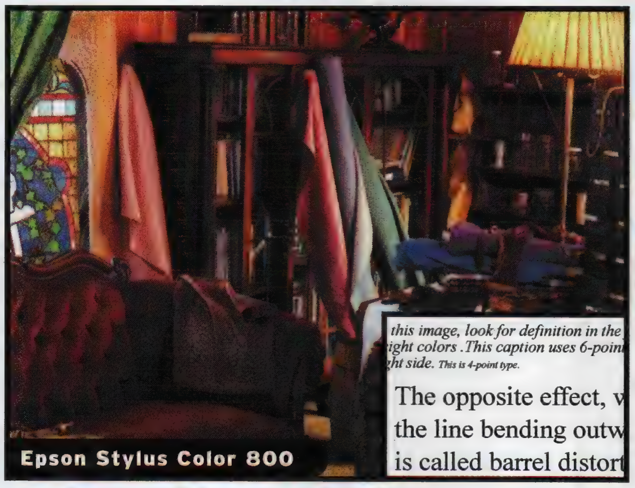
HP DeskJet 890Cse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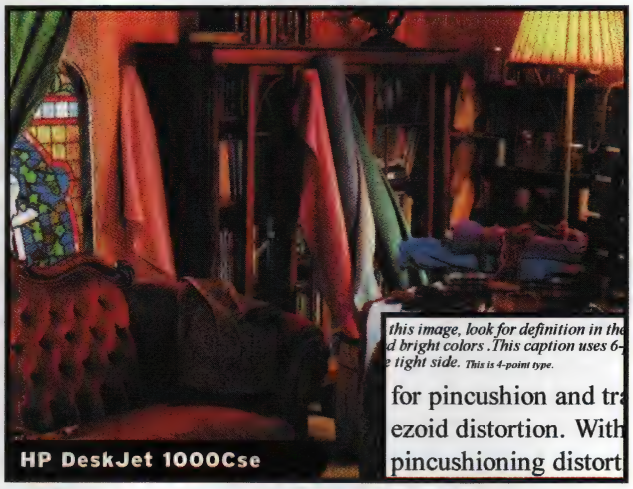
Epson Stylus Color 800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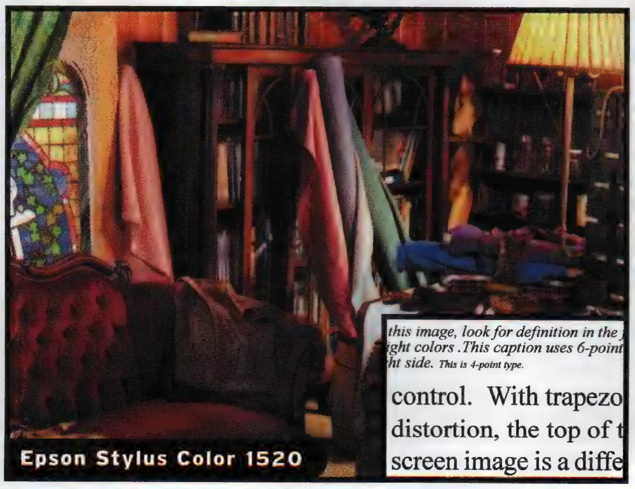
HP DeskJet 1000Cse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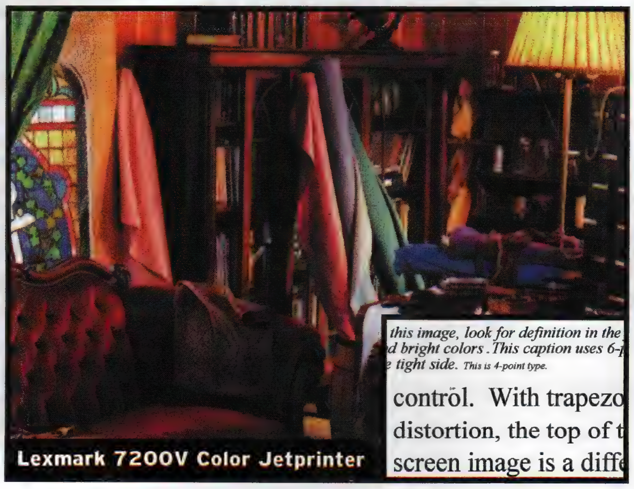
Epson Stylus Color 1520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Lexmark 7200V Color Jetprinter

(continued from page 180)

the printer produced smooth gradients and acceptable tints.

Performance fluctuates across the board—not too slow, not blazingly fast—but the DeskJet 890Cse aced the Word 97 test with a speedy 4.3 ppm.

This new unit is shaped much like previous HP DeskJet printers. The 890Cse's input and output paper trays both sit on the front of the printer, with the output tray located above the input tray. This gives the DeskJet 890Cse a tight U-shaped paper path, but no straight path. HP's printer driver includes the usual image-control functions as well as a status monitor. As with most of the other printers, you select image quality by selecting the paper type, though you can override most of these settings. You never really know the output resolution since HP masks them with names such as Best, Normal, or EconoFast, and defines the attributes of only the last mode (a 300-dpi, plain-paper draft mode).

HP is the only vendor in this roundup to supply a driver that supports n-up and duplex printing. The status monitor, which HP calls the HP DeskJet ToolBox, includes printer-service utilities such as head alignment and cleaning, troubleshooting, and help, but it lacks direct print-job information like Epson's or Lexmark's drivers. Also included on the CD-ROM is Design Intelligence's iPublish; HP's Font Smart; and Streetwise Software's By Design Office, a SOHO application for creating calendars and letterhead.

As a monochrome-mostly printer, the HP DeskJet 890Cse offers a lot, including fine text quality and the highest text-printing speed of this group. Although the DeskJet's lower cost per color page is attractive, color business output—from applications such as PageMaker and PowerPoint—does not measure up to the monochrome print quality.

HP DESKJET 1000CSE

The HP DeskJet 1000Cse marks HP's debut in the tabloid-size color-inkjet market, and its bigger-isn't-necessarily-grossly-expensive price tag of $499 on average makes it an attractive buy.

Like the DeskJet 890Cse, the 1000Cse prints equally well on plain or inkjet paper. The black cartridge is the same as that used by the 720C and 890C series, but the color cartridge dates from older HP inkjet printers. As a result, its output quality was relatively poor. Text tended to be jaggy, though acceptable. Color photos, however, were grainy and dark, bordering on unusable; skin tones displayed the significantly reddish tint typical of the last generation of HP DeskJets. The 1000Cse drew lines too heavily and displayed poor control over dot placement. PowerPoint slides showed

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good color saturation, but exhibited mild banding over the entire slide and significant banding in the gradient background.

The 1000Cse's graphics printing was the worst of the lot—it displayed severe clipping in shadows, too-dark tints, and visible dither patterns. We have no complaints about its performance, however; the 100Cse performed solidly average on all the tests.

Both the printer's ink cartridges have built-in indicators, but you must inspect the cartridge to determine the current ink level. Unlike the Epson printers and the Lexmark, the 1000Cse does not provide ink-level information through the driver. The driver provides control over paper; image resolution; color options; and special features such as manual duplexing, n-up printing, and billboards. HP also includes Corel's Print House Select 1.1, a letterhead- and business-card-production application aimed at small businesses, and My Software Co.'s My Color Marketing Materials for creating colorful marketing reports.

WORTH NOTING

☞ **Epson Stylus Color 800:** This $400-average printer offers the best combination of performance and price for the graphics-intensive home office.

☞ **HP DeskJet 890Cse:** If you need a printer with solid performance, good text, and low running costs, this one delivers at a reasonable average price of $449.

☞ **Lexmark 7200V Color Jetprinter:** Video-capture and printing capability aside, this $478-average printer delivers dynamite text and images. Keep in mind that it's slow and uses expensive consumables, however.

Since this printer is about 5 inches wider than the average letter-size inkjet, you'll need a little more desk space for the DeskJet 1000Cse. Like all HP inkjet printers, it houses both its input and output paper trays on the front of the printer, so you won't need to maneuver around back except to access the straight path for envelopes.

Even though the HP 1000Cse offers a good driver and B-size printouts at an admirable price, its lackluster color print quality is a significant problem. As we went to press, however, HP announced plans to replace the 1000Cse with the comparably priced 1120Cse, which will use the superior ink cartridges of the 720Cse and the 890Cse.

LEXMARK 7200V COLOR JETPRINTER

The Lexmark 7200V Color Jetprinter wins kudos for originality by including a built-in Snappy Video Snapshot video-capture device in the printer, which lets you print a scene directly from your favorite videotape. Its $478-average-mail-order price tag makes it the most expensive of the standard-paper-size printers reviewed, but if you don't need video capture, you can buy the Snappy-less Lexmark 7200V for $394.

The Lexmark 7200V sports two RCA-style video jacks on the lower left-hand side of the printer. You can connect any video source, including a digital camera (with NTSC out), a video camera, a television, or a VCR, to these jacks using the supplied cable or your own standard video-out cable. Using the video-capture hardware couldn't be easier. We installed the software, attached a video camera, and proceeded to print full-color images captured directly from the tape. The images were a little dark, so we'd recommend saving the image to file and adjusting it with the bundled PhotoImpression or your favorite image-editing application prior to printing.

The Lexmark 7200V produced some of the best output of this roundup, particularly on text and photos. Text on plain paper displayed no jaggies, and we found it to be hands-down the best of this group. Quality gets even better when you use Lexmark's inkjet paper. On color images, the 7200V produced excellent skin tones with good dynamic range and contrast. We saw slight clipping in the shadows, which gives the output slightly more contrast than the comparable Stylus Color 800.

The 1,200x1,200-dpi resolution that makes this unit's text so good doesn't seem to help its line art, however. Poor dot placement results in flattened curves. Our monochrome photo looked slightly washed out, despite the printing of grays with black ink; it also showed minor banding. Furthermore, its performance ran below average—the Lexmark placed last on text speed—though it eked out a group best of 0.6 ppm on the PageMaker test.

This printer uses two ink cartridges: For photographic output, you install a photo cartridge and the standard CMY cartridge, and for all other output, you install a black cartridge with the standard CMY cartridge. The 7200V's monochrome per-page cost of 4.7 cents is the highest of this group, and the 17-cent-per-page color cost is higher than that of almost every printer we've seen lately—except for that of the Lexmark 7000, which uses the same cartridges.

PRODUCT LISTING

Canon BJC-7000
Canon Computer Systems
2995 Redhill Ave.
Costa Mesa, CA 92626
800-848-4123; 714-438-3000
www.ccsi.canon.com/printers
Avg. Mail-Order Price: $441

Epson Stylus Color 800
Epson America
20770 Madrona Ave.
Torrance, CA 90503
800-463-7766; 310-782-0770
www.epson.com/homeoffice/inkjet
Avg. Mail-Order Price: $400

Epson Stylus Color 1520
Epson America
20770 Madrona Ave.
Torrance, CA 90503
800-463-7766; 310-782-0770
www.epson.com/homeoffice/inkjet
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HP DeskJet 890Cse
Hewlett-Packard Co.
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Palo Alto, CA 94304
800-752-0900
www.hp.com
Avg. Mail-Order Price: $449

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Hewlett-Packard Co.
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Lexmark 7200V Color Jetprinter
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Lexington, KY 40550
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www.lexmark.com/printers
Avg. Mail-Order Price: $478

The Lexmark driver installs easily from two floppies, and as with the Epson printers, it provides image control based on paper type. Of course, you can easily override these settings, though the defaults are more than adequate. Much like the Epson printer driver, the Lexmark driver has no advanced printing features, but you can set halftone and adjust color contrast, hue, and intensity. Lexmark's Control Program, a print-job control utility, pops up onscreen whenever a print job begins. Lexmark's version of the Software 2000 program also uses ink-cartridge icons to track ink level in the black and CMY or photographic cartridge. And as with nearly every other inkjet printer except the HPs, paper feeds from the top rear and exits from the lower front.

Lexmark includes an application software CD-ROM containing GreetingCardMaker, LivePix SE, PhotoFantasy, PhotoImpression, PhotoPrinter, Post-It Notes Design, T-ShirtDesignMaker, and WebPrinter. Each application works well with the Snappy-equipped 7200V.

With the added benefit of the built-in Snappy feature, the Lexmark 7200V Color Jetprinter is a versatile, video-ready, high-quality printer. Though text performance is slow, the superior text-output quality is hard to beat, as is the excellent photo quality. The 7200V is on the expensive side, but if you don't need the video capability, the Lexmark 7200 is a good value.

THE FINE PRINT

With inkjet performance and print quality continuing to improve as rapidly as costs decrease, the decision to add a color inkjet to your small or home office is becoming a no-brainer. Your sales and marketing efforts will certainly benefit from the persuasive power that color lends to brochures, signs, and presentations. And although it's still faster and cheaper to send your business out into the world clothed in black and white, monochrome performance, quality, and price differences are increasingly being outweighed by the opportunity to add color to your work. ▼

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- 2 Type II or 1 Type 3 PCMCIA Slots, support ZV-Port & Card Bus
- 1 serial, 1 paralle port
- TV-out port
- Wireless Infrared support 4 Mbit FIR
- 1 USB (Universal Serial Port)
- lithium-Ion battery
- Nice Carrying Bag, AC Adaptor
- Microsoft Windows® 95
- 7.9 Lbs with battery
- Pentium II Pricing.......Call
- Optional: Battery Charger, Car Adaptor

DVD Technology

	14.1"XGA	13.3" XGA	12.1" SVGA
Pentium® 200 MMX	$2,195	$2,045	$1,795
Pentium® 233 MMX	$2,245	$2,095	$1,845
Tillamook-266	$2,695	$2,545	$2,295
P-II 233	$2,345	$2,595	$2,745
P-II 266	$2,595	$2,845	$2,945

PC-ATX All-In-One Portable

NEW
533MHz ALPHA

- Fit ATX or Regular Baby AT MB
- Strong light Weight aluminum frame
- Two 5.25" & two 3.5" open drive bays
- 4 full & 3 half slots
- 104 Window 95 K/B with touchpad mouse
- 250W 110/220v power supply
  (300, 350W P/S optional)
  (Battery P/S optional)
- Two cooling fans
- 2MB VGA card (4/8MB optional)
- 11.3" TFT 800 x 600 screen
- 586: 16MB, P-II 32MB memory, 1.44 floppy drive
- 3.2 GB hard drive (to 9.0 GB)
- Built-in 2 stereo speakers
- 16-bit Creative sound card
- 32X CD-ROM w/7 CD Titles
- 2 serial & 1 parallel ports
- MS Windows 95
- Nice carrying bag
- Wgt: Apx. 25 lbs.
  7.9"D x 12.6"H x 15.7"W
- Optional:
  Atx MB +$40/$120 Air cargo case +$ 290
  12.1" 800 x 600 Dual Model Less $ 230
  12.1" 800 x 600 TFT Model Add $ 465
  12.1" 1024 x 768 TFT Model Add $ 1045

Dual P-II

Dual P-II 333	$4,690	Pentium® II 266	$2,935
Pentium® II 400	$3,650	Pentium® II 233	$2,815
Pentium® II 333	$3,335	586-233 MMX	$2,560
Pentium® II 300	$3,095	586-200 MMX	$2,480

RMS-001ATX 19" RACK MOUNT

- 19" R.M. ATX Case. 7 Drive Bays, 8 Slots with Slide ready to mount
- 1MB SVGA Card
- 568: 16MB, P-II 32MB Memory
- 1.44MB FDD
- 1.6GB HDD (to 9.0GB)
- 101 K/B & Enclosure & Slide
- 14" SVGA Monitor & Enclosure
- 250W 110/220V P/S
- 2 Serial & 1 Parallel Port
- Apx. 19"W x 23.7"D x 8.75"H
- Optional: 12 to 20 Slots Model

400 MHZ

Dual P-II 333	$4,185	Pentium® II 233	$2,215
Pentium® II 400	$3,085	586-233 MMX	$1,925
Pentium® II 333	$2,725	586-200 MMX	$1,845
Pentium® II 300	$2,560	586-166 MMX	$1,810
Pentium® II 266	$2,355	586-150	$1,795

VIC-9000 19" RACK MOUNT

- Built-in 10" (9.5") SVGA Monitor
- Fit 19" Industrial Rack Mounting
- 1MB SVGA Card
- 568: 16MB, P-II 32MB Memory
- 1.44MB FDD
- 1.6GB HDD (to 9.0 GB)
- 101 K/B & Enclosure Optional: 85-Key Key Pad
- 250W 110/220V P/S
- 2 Serial & 1 Parallel Port
- 19"W x 16.5"D x 8.6"H

MMX Technology

Pentium® II 333	$2,915	586-233 MMX	$2,115
Pentium® II 300	$2,720	586-200 MMX	$2,035
Pentium® II 266	$2,535	586-166 MMX	$2,000
Pentium® II 233	$2,395	586-150	$1,985

TOUCH SCREEN SBC

- RMS-2000 Single Board Computer
- 12.1" 800x600 TFT Screen
- Built-in Touch Screen
- 16MB memory (to 64MB)
- Built-in EtherNet Card
- 4 Serial Ports
- 1.0GB HDD (2.3.4.5 GB optional)
- One PC/104 slot
- One PCI/ISA expansion slot
- 2.68" D x 13"W x 11.6"H
- Good for banking, medical, point-of-info, or control system
- 10.4" Model less $460

2.6" Thick

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AMD 5x86-133	$3,295
Pentium 166MMX	$3,480
Pentium 200MMX	$3,570

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NP6600

- Intel Pentium® with MMX™ Technology or Intel Pentium® II Processor
- 512KB L2 Pipeline Burst Synchronous Cache
- 4MB Video SGRAM
- PCI Local Bus Hardware 3D Graphics Accelerator
- 32MB SDRAM expandable to 128MB
- Removable 3.0GB Hard Drive (2.1GB or 4.0GB opt.) Supports Ultra DMA HDD for High Speed Access
- 14.1"/13.3" 1024x768 XGA or 12.1" 800x600 SVGA Active Matrix Display
- Dual View on LCD/TV, LCD/Ext.CRT or TV/Ext. CRT
- 24X CD-ROM Drive or optional 2X DVD-ROM Drive
- Modular 3.5" 1.44MB FDD exchangeable with optional Iomega® Zip Drive, LS-120 Drive or 2nd Battery
- 3D Audio and Built-in WaveTable Stereo
- 2 Built-in single watt Speakers & 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which Support ZV-Port & Card Bus
- Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 1 USB Port
- TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboards and Ext. CRT
- Jacks: 1 Line-in, 1 Line-out & 1 Microphone
- A4 Size 86-key Windows 95 Keyboard for Easy Typing
- Microsoft Windows 95
- Carrying Bag & AC Adapter
- Weight: 7.6lbs with Battery
- 12.7"w x 10.1"d x 2.0"h
- Sager's Umbrella Protection Policy

OPTIONS

- Battery Charger
- Car Adapter
- Docking Station
- Iomega Zip Drive
- LS-120 Drive
- MPEG II Module
- Numeric Key Pad

PCMCIA

Ethernet/33.6 FAX/ Modem Combo	$ 170
33.6 DATA/FAX	$ 70
56K DATA/FAX	$ 100
Ethernet Combo	$ 60
Ethernet 10/100 16-bit	$ 125

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The New NP6600 is the first truly portable workstation, a mobile command center at your finger tips, featuring DVD and Pentium® II Technology.

The NP6600 comes loaded with an Intel Pentium® Processor with MMX™ Technology or the high-powered Pentium® II Processor, and it harnesses a 14.1" or 13.3" XGA LCD with 3D graphics and audio, and a blazing fast 24X CD-ROM or 2X DVD-ROM drive. With 4MB SGRAM and dual view capability, you can power and interact with two displays at once.

PENTIUM® II POWER

The Pentium II Processor is the latest in the Intel Mobile Chipset family that continues to tap the extreme limits of speed, performance, efficiency, and multimedia capabilities.

24X CD-ROM, 2X DVD-ROM & MPEG II

The NP6600 comes with the fastest 24X CD-ROM or optional 2X DVD-ROM drive. The optional MPEG II module allows DVD movies to come alive at a realistic 30 frames per second.

3D GRAPHICS AND 4MB SGRAM

The high performance 3D graphics accelerator offers incredible color quality for virtual reality experiences. Its 4MB SGRAM can power a high-color display.

ZIP-DRIVE, LS-120 DRIVE OR 2ND BATTERY

The optional Iomega® Zip Drive or LS-120 Drive provides for rugged, high capacity, removable storage. It makes backing up fast and easy and lets you create your own multimedia library. The optional 2nd battery doubles the notebook's running time.

DUAL VIEW AND ULTRA DMA READY

The NP6600 supports dual view for LCD/TV, LCD/Ext. CRT or TV/Ext. CRT. The NP6600 is also designed ready for high speed access with ultra DMA hard disk drive capability.

3D AUDIO AND TWO SINGLE WATT SPEAKERS

The NP6600 supports 3D audio and is equipped with two single watt high quality speakers to maximize sound quality.

NP6600 PRICING

Intel Processor	12.1" SVGA Active Matrix	13.3" XGA Active Matrix	14.1" XGA Active Matrix
200MHz Pentium® w. MMX	$1845	$2095	$2245
233MHz Pentium® w. MMX	$1895	$2145	$2295
266MHz Pentium® w. MMX	$2345	$2595	$2745
233MHz Pentium® II	$2395	$2645	$2795
266MHz Pentium® II	$2645	$2895	$2995

SPECIAL PRICING

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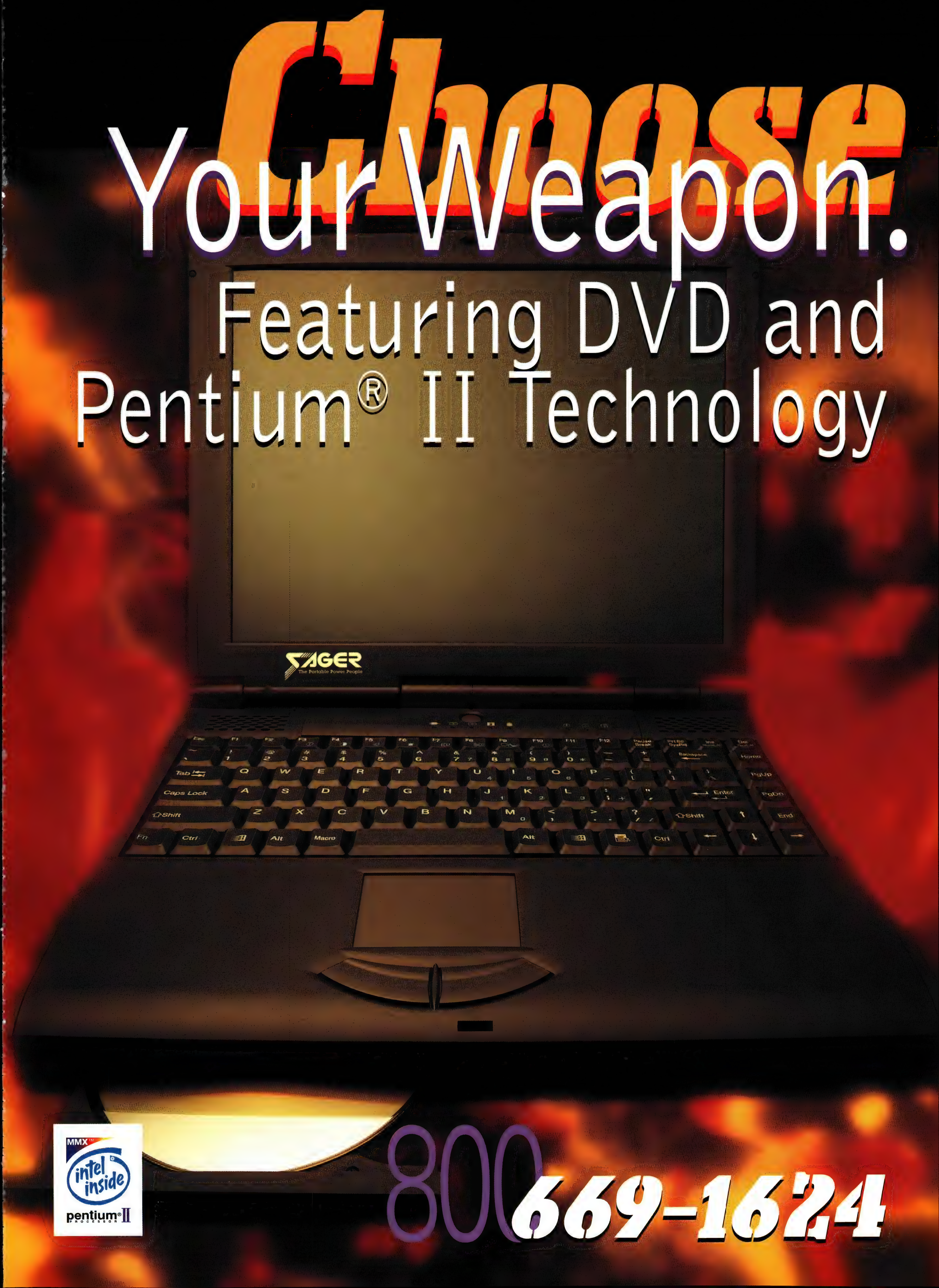
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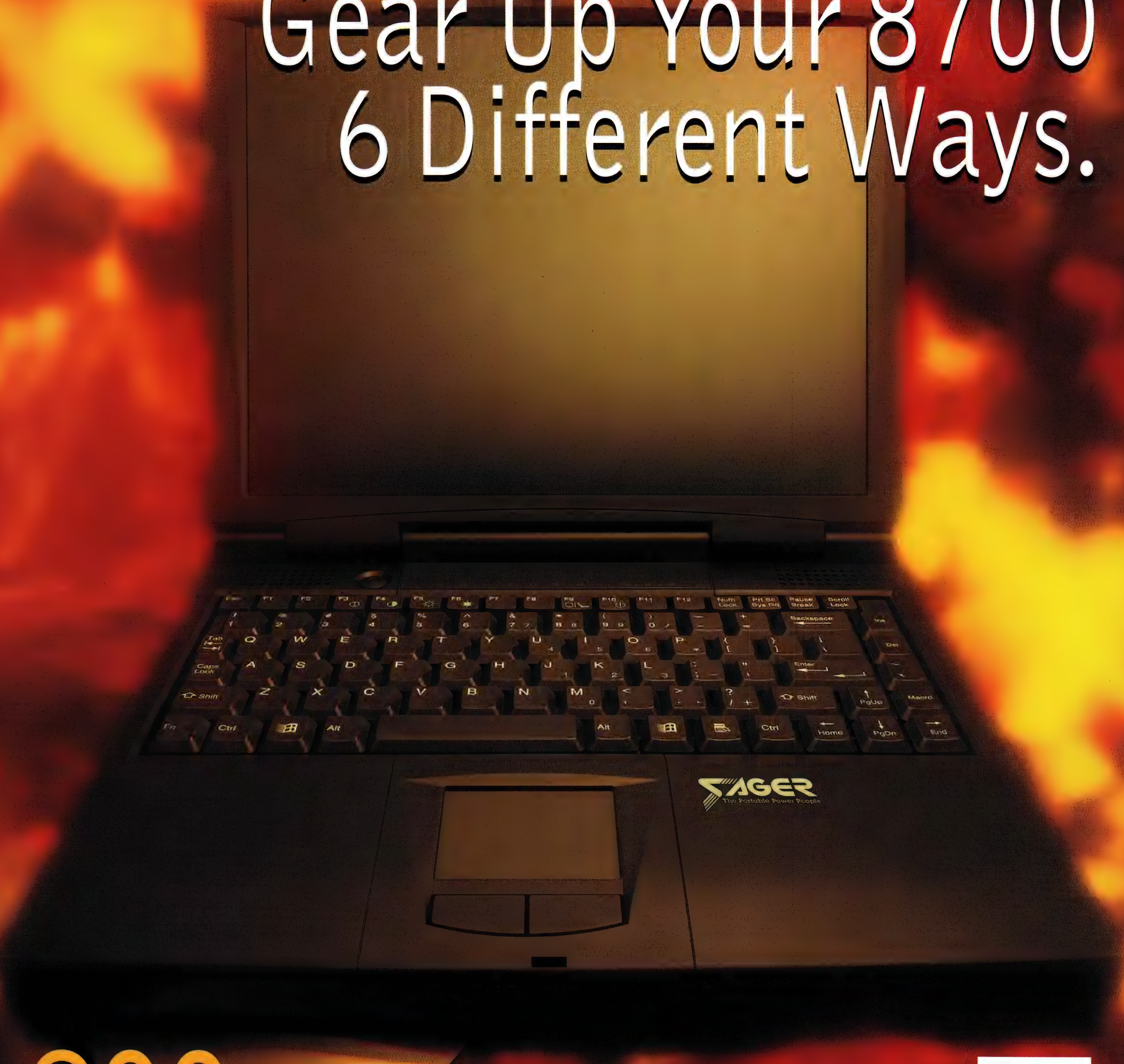
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pentium®
PROCESSOR

NP8700

The Sager NP8700. Think of it as a six smokin' multimedia notebooks for the price of one.

The Sager NP8700 can actually be configured 6 different ways to meet every task and demand. Enjoy maximum multimedia performance with the powerful 233MHz Intel Pentium® Processor with MMX™ Technology and PCI local bus architecture. Our big 13.3" Active Matrix Display (1024 x 768 resolution) gives you XGA quality. Plus, our WaveTable Stereo Audio supports 3D Surround Sound for auditorium-style sound. As if that weren't enough, you also get a Lithium-Ion battery and a 20X CD-ROM drive for longer and faster performance. The Sager NP8700 is a tactical necessity.

2 MODULAR BAYS

This notebook is really 6 notebooks in one! It's 2 modular bays offer 6 different custom combinations for the ultimate in flexibility:

Bay 1- Floppy Disk Drive or 2nd Battery
Bay 2- CD-ROM Drive or MO Drive or 2nd HDD

233MHZ WITH MMX

When time is short, the NP8700 comes through in the clutch. Powered by the fastest Pentium Processor engine with MMX Technology, the NP8700 will get it done fast when you put the throttle down.

13.3" 1024X768 TFT

With a huge 13.3" ultra clear 1024x768 resolution XGA display & 2MB Video RAM, full-screen & full-motion video and MPEG support, viewing has never been more vivid.

3D SURROUND SOUND

Experience the highest audio quality - including WaveTable Stereo Sound which supports 3D Surround Sound & brings multimedia to life.

EXTRA PORTS

For even more flexibility, the NP8700 is loaded with 3 extra ports including a Kensington lock port for security, a TV-out port for connection to any TV monitor and a new industry-standard USB Port.

NP8700 PRICING

Intel Processor	12.1" SVGA Active Matrix	13.3" XGA Active Matrix
200MHz Pentium® w. MMX	$1745	$2045
233MHz Pentium® w. MMX	$1795	$2095

SPECIAL PRICING

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BUSINESS LEASING AVAILABLE

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PFO Capital

Optional 3 Year Extended Warranty from General Electric Available.

- Intel Pentium® Processor
- 256KB L2 Pipeline Burst Synchronous Cache
- 2MB Video RAM
- 64-Bit VGA Controller
- PCI Local Bus Architecture
- 32MB EDO RAM expandable to 144MB
- Removable 2.1GB HDD (3.0GB or 4.0GB opt.)
- Suspend to HDD Feature
- 13.3" 1024x768 XGA or 12.1" 800x600 SVGA Active Matrix Display
- Simultaneous CRT & LCD Operation
- Modular 5.25" 20X CD-ROM Drive exchangeable with MO Drive or 2nd HDD
- Modular 3.5" 1.44MB FDD exchangeable with 2nd Battery
- Built-in WaveTable Stereo Audio Supports 3D Surround Sound Effect
- 2 Built-in Stereo Speakers & 1 Microphone
- Built-in Touchpad Pointing Device
- Advanced Power Management
- 2 Type II or 1 Type III PCMCIA Slots which Supports ZV-Port & Card Bus
- Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- TV-Out Port
- Kensington Lock Port
- 1 USB Port
- Other Ports: 1S, 1P, Game/MIDI, Ext. Keyboards and Ext. CRT
- Jacks: 1 Line-in, 1 Line-out & 1 Microphone
- A4 Size 86-key Windows 95 Keyboard for Easy Typing
- Microsoft Windows 95
- Carrying Bag & AC Adapter
- Weight: 7.9lbs with Battery
- 11.9"w x 9.1"d x 2.2"h
- Sager's Umbrella Protection Policy

OPTIONS

- Battery Charger
- Car Adapter
- Internal AC-Adapter
- Numeric Key Pad
- MO Drive Module

PCMCIA

Ethernet/33.6 FAX/ Modem Combo	$ 195
33.6/14.4 DATA/FAX	$ 75
56K DATA/FAX	$ 115
Ethernet Combo	$ 65
Ethernet 10/100 16-Bit	$ 145
MPEG-1	$ 135

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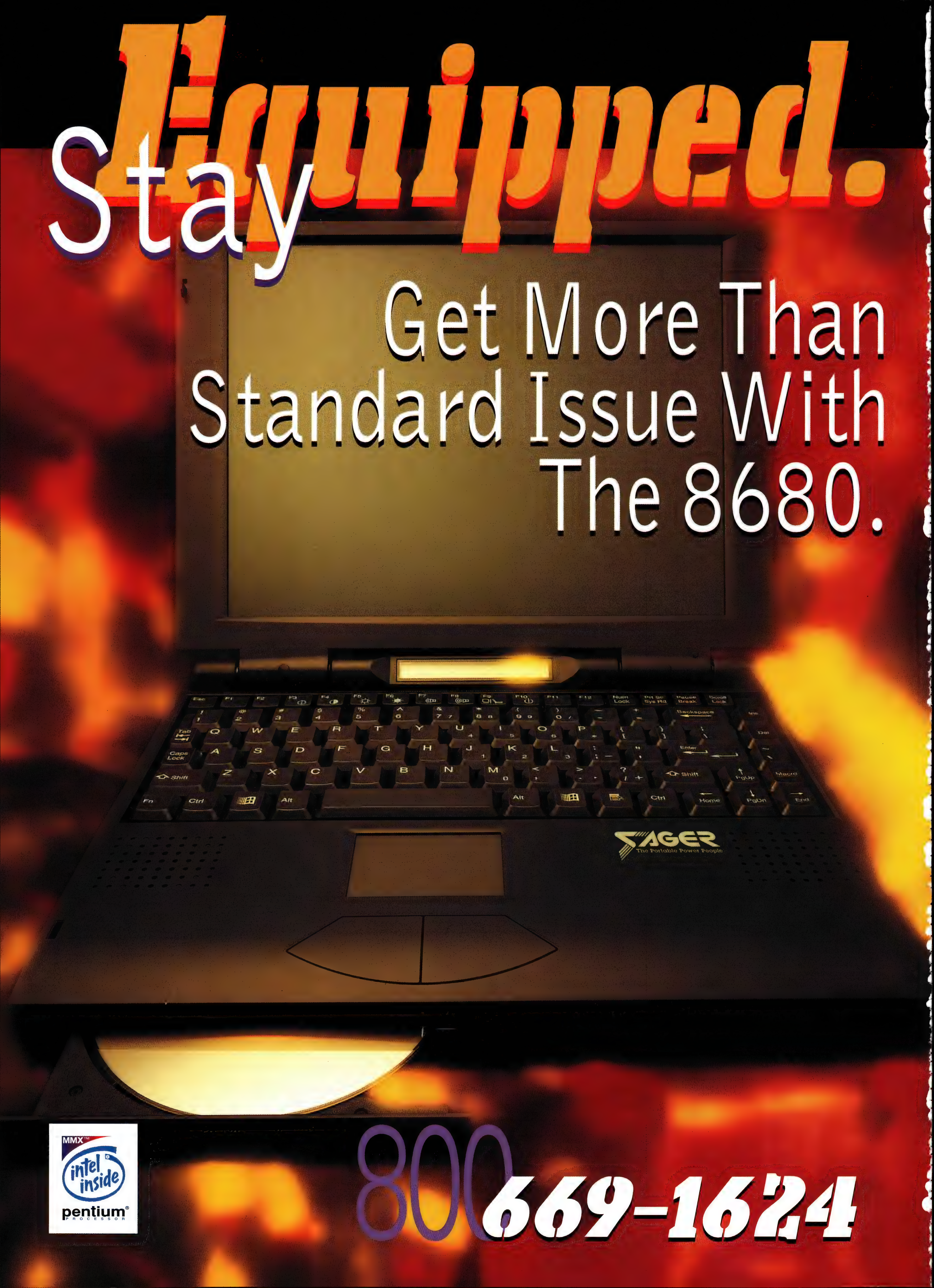
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NP8680

With a built-in CD-ROM and Floppy Disk Drive, you'll always have a rock-solid piece of hardware.

This all-in-one notebook gives you all the features, power and functionality you need at a tremendous value. Maybe that's why it's our best-selling notebook computer. With extra built-in ports for flexibility, Intel Pentium® power and advanced multimedia functions, Sager's NP8680 gets down to business... with an affordable price.

- Intel Pentium® Processor
- 256KB L2 Pipeline Burst Synchronous Cache
- 2MB Video RAM
- 64-Bit VGA Controller
- PCI Local Bus Architecture
- 16MB EDO RAM expandable to 80MB
- Removable 1.44GB Hard Drive (2.1GB or 3.0GB opt.)
- Suspend to HDD Feature
- 12.1" Dual Scan or 12.1" Active Matrix 800X600 SVGA Display
- Simultaneous CRT & LCD Operation
- Internal 5.25" 20X CD-ROM Drive
- Built-In 3.5" 1.44MB FDD
- 16-bit Stereo Sound with 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- Advanced Power Management
- 1 Type III or 1 Type II PCMCIA Slots which Supports Zoom Video
- 43 watt NiMH Battery Pack
- Infra Red, Wireless "IR" Interface
- TV-Out Port
- Other Ports: 1S, 1P, Game/MIDI, Ext. Keyboard; Ext. CRT & 176 Pin Connector for Docking Station
- Jacks: 1 Line-in, 1 Line-out & 1 Microphone
- A4 Size 86-key Windows 95 Keyboard for Easy Typing
- Microsoft Windows 95
- Carrying Bag & AC Adapter
- Weight: 7.9lbs with Battery
- 11.81"w x 8.94"d x 2.13"h
- Sager's Umbrella Protection Policy

OPTIONS

- Battery Charger
- Car Adapter
- Numeric Keypad
- Mini Docking Station

PCMCIA

Ethernet/33.6 FAX/ Modem Combo	$ 170
33.6/14.4 DATA/FAX	$ 70
56K DATA/FAX	$ 100
Ethernet Combo	$ 60
Ethernet 10/100 16-Bit	$ 125
MPEG-II	$ 200

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ALL-IN-ONE

Sager's NP8680 comes packed with everything you need to run amazing multimedia. Complete with internal PCI Local Bus Hard Disk Drive, Floppy Disk Drive, 20X CD-ROM and NiMH Battery Pack.

800X600 RESOLUTION

Every inch of this large 12.1" display gives you crystal clear 800x600 resolution for vibrant colors and outstanding picture definition.

TV-OUT PORT

Wish you could hook your notebook up to your 60" projection TV? Now you can - The NP8680 easily & quickly makes presentations or multimedia video a snap on any large-screen TV monitor.

ADVANCED MULTIMEDIA

With 20X CD-ROM, 16-bit Stereo Sound, 2 Stereo Speakers and Microphone, the NP8680 blows away most desktop systems with the ultimate in multimedia.

PCI BUS DOCKING

Sager's optional PCI Bus Docking Station comes complete with 2 PCI Bus slots, 2 PCMCIA slots and Built-in Battery Charger.

NP8680 PRICING

Intel Processor	12.1" SVGA Dual Scan	12.1" SVGA Active Matrix
200MHz Pentium® w. MMX	$1345	$1495
233MHz Pentium® w. MMX	$1395	$1545

SPECIAL PRICING

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SAGER'S UMBRELLA PROTECTION POLICY

- 30-Day Money-Back Guarantee. If the equipment does not work as promised, or if you are not fully satisfied, we will issue a full refund upon the return of all original equipment.
- 48-hour Repair Promise. For the first 30 days, we'll repair or replace your computer within 48 hours, and we'll pay the 2nd day air return shipping charge.
- 72-hour Repair Promise. For the rest of the 1-year warranty period, if it takes more than 72-hours to repair your computer, we'll pay 2nd day air return shipping charge.
- 1-year Parts and Labor Limited Warranty
- Lifetime Tool-Free Technical Support.

Umbrella Policy Applies to End Users in the United States of America and In Canada Only and 48-hour/72-hour repair policies apply to hardware only. Software problems may take longer.

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BE SURE TO READ

NEXT-BUSINESS-DAY AT-YOUR-DESK SERVICE GUARANTEE

If your Dell system experiences a covered hardware failure while it is under a guaranteed next-business-day on-site[Δ] *service contract purchased through Dell, and if a service request is forwarded to the third-party service provider before 5:00 PM local-customer time in the continental U.S., Monday through Friday, a technician, if needed, will arrive at your location to address the problem by the end of the next business day.*[°°]

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FEATURING MMX™ TECHNOLOGY

- 128MB SDRAM Memory
- ★ ***NEW* 16.8GB Ultra ATA Hard Drive (9.5ms)**
- ★ **1200HS 19" (17.9" v.i.s., .26dp) Monitor**
- STB nVidia 4MB 3D AGP Video Card
- ★ **2X DVD-ROM Drive and Decoder Card**
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-495 Full Dolby Surround Sound Speakers with Subwoofer
- 56K Capable** U.S. Robotics x2 Modem
- Iomega Zip 100MB Internal Drive
- Microsoft® Office 97 Small Business Edition plus Encarta 98; McAfee VirusScan
- MS® Windows® 95/IE/IntelliMouse®
- ★ ***FREE* MS Windows 98 Upgrade Packet√**
- Dell® Comfort Key Keyboard
- 3-Yr. Ltd. Warranty†/1-Yr. On-site∆ Service

$3499

Personal Lease°: $169/Mo., 24 Mos.ª
Order Code #500405

DELL DIMENSION XPS D333
333MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

- 128MB SDRAM Memory
- 8.4GB Ultra ATA Hard Drive (9.5ms)
- ★ **1200HS 19" (17.9" v.i.s., .26dp) Monitor**
- *NEW* Diamond Permedia 2 8MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- *NEW* Turtle Beach Montego A3D 64 Voice PCI Sound Card
- Altec Lansing ACS-495 Full Dolby Surround Sound Speakers with Subwoofer
- 56K Capable** U.S. Robotics x2 WinModem
- Microsoft Home Essentials® 98 with Money 98; McAfee VirusScan
- MS Windows 95/IE/IntelliMouse
- ★ ***FREE* MS Windows 98 Upgrade Packet√**
- Dell QuietKey® Keyboard
- 3-Yr. Ltd. Warranty†/1-Yr. On-site∆ Service

$2899

Personal Lease°: $140/Mo., 24 Mos.
Order Code #500403

DELL DIMENSION XPS D300
300MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

- 64MB SDRAM Memory
- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000TX 17" (15.9" v.i.s.) Trinitron® Monitor
- *NEW* Diamond 8MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec ACS-295 Speakers with Subwoofer
- 56K Capable** U.S. Robotics x2 WinModem
- Iomega Zip 100MB Internal Drive
- Microsoft Office 97 Small Business Edition plus Encarta 98; McAfee VirusScan
- MS Windows 95/IE/IntelliMouse
- ★ ***FREE* MS Windows 98 Upgrade Packet√**
- Dell QuietKey Keyboard
- 3-Yr. Ltd. Warranty†/1-Yr. On-site∆ Service

$2399

Personal Lease°: $117/Mo., 24 Mos.
Order Code #500406

DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

- 32MB SDRAM Memory
- 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000LS 17" (15.9" v.i.s.) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S. Robotics x2 WinModem
- Microsoft Home Essentials 98 with Money 98; McAfee VirusScan
- MS Windows 95/IE/IntelliMouse
- ★ ***FREE* MS Windows 98 Upgrade Packet√**
- Dell Comfort Key Keyboard
- 3-Yr. Ltd. Warranty†/1-Yr. On-site∆ Service
- ★ *Upgrade to 64MB SDRAM Memory, add $99.*

$1799

Personal Lease°: $88/Mo., 24 Mos.
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You may think all service programs are the same. But take a look at Dell's and one word jumps out: Guaranteed.

If there's a problem with your PC, a certified technician will be at your office or your home the next business day, servicing your PC.°°

The Dell® limited warranty covers your Dell Dimension® system for three years.† We also offer one year of guaranteed next-business-day on-site∆ service. And for only $99, you can upgrade to a full three years of guaranteed next-business-day on-site∆ service.

Call today to order a Dell Dimension PC. It comes protected by the Dell service program. And something else unique: a guarantee.

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In Canada,* call 800-232-6306
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Keycode #05347

Reference the appropriate order code to receive featured configuration and pricing.

°Personal leasing arranged by Dell Financial Services L.P., an independent entity, to qualified customers. Amount of monthly lease payments above are based upon 24-month lease. All above monthly lease payments exclude taxes which may vary (for example, Hartford City, IN sales tax ª$8.45/month); shipping cost due with first payment; no security deposit required; subject to credit approval and availability. Lease terms subject to change without notice.

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MMX™ intel inside pentium®II PROCESSOR

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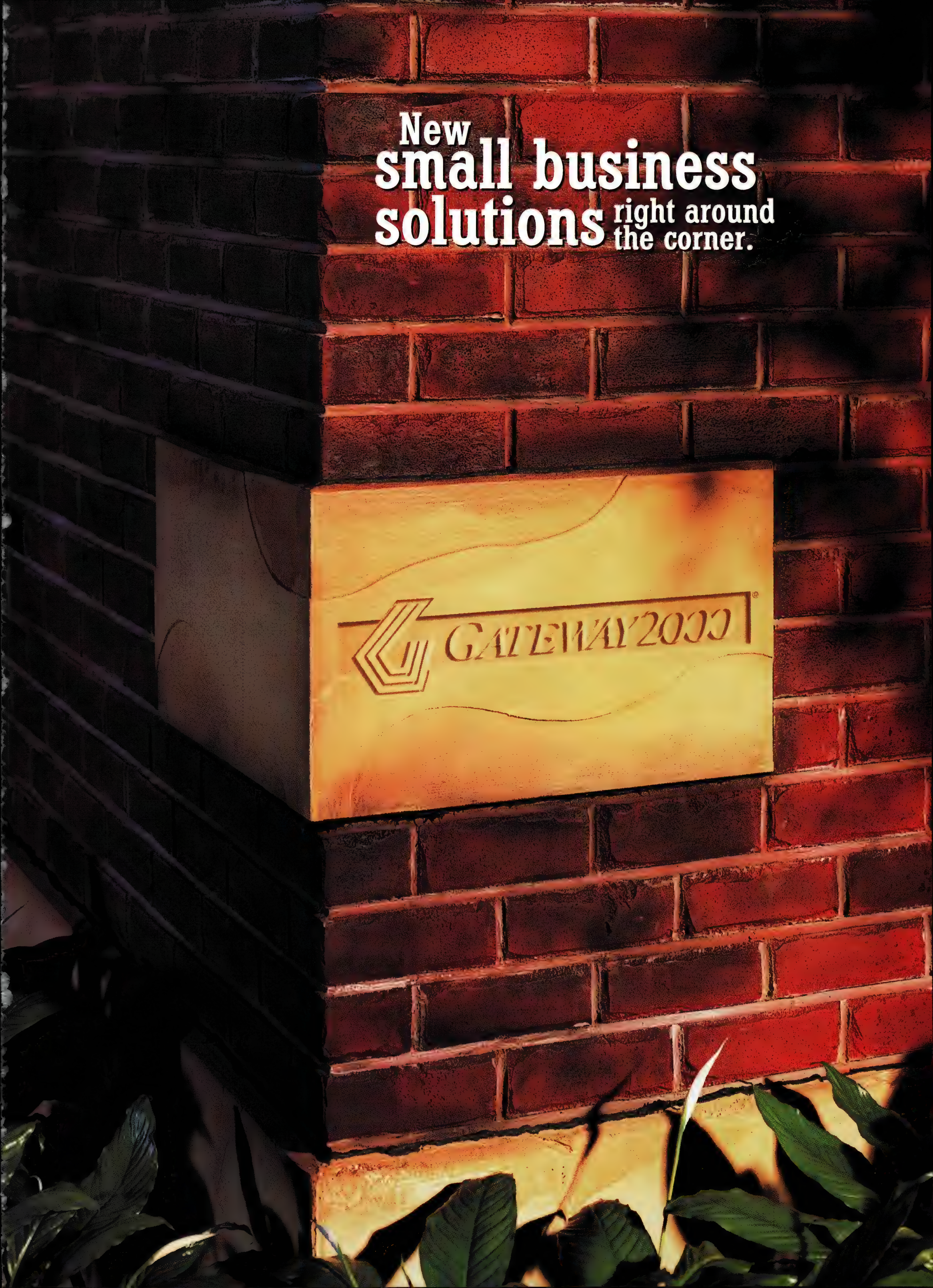
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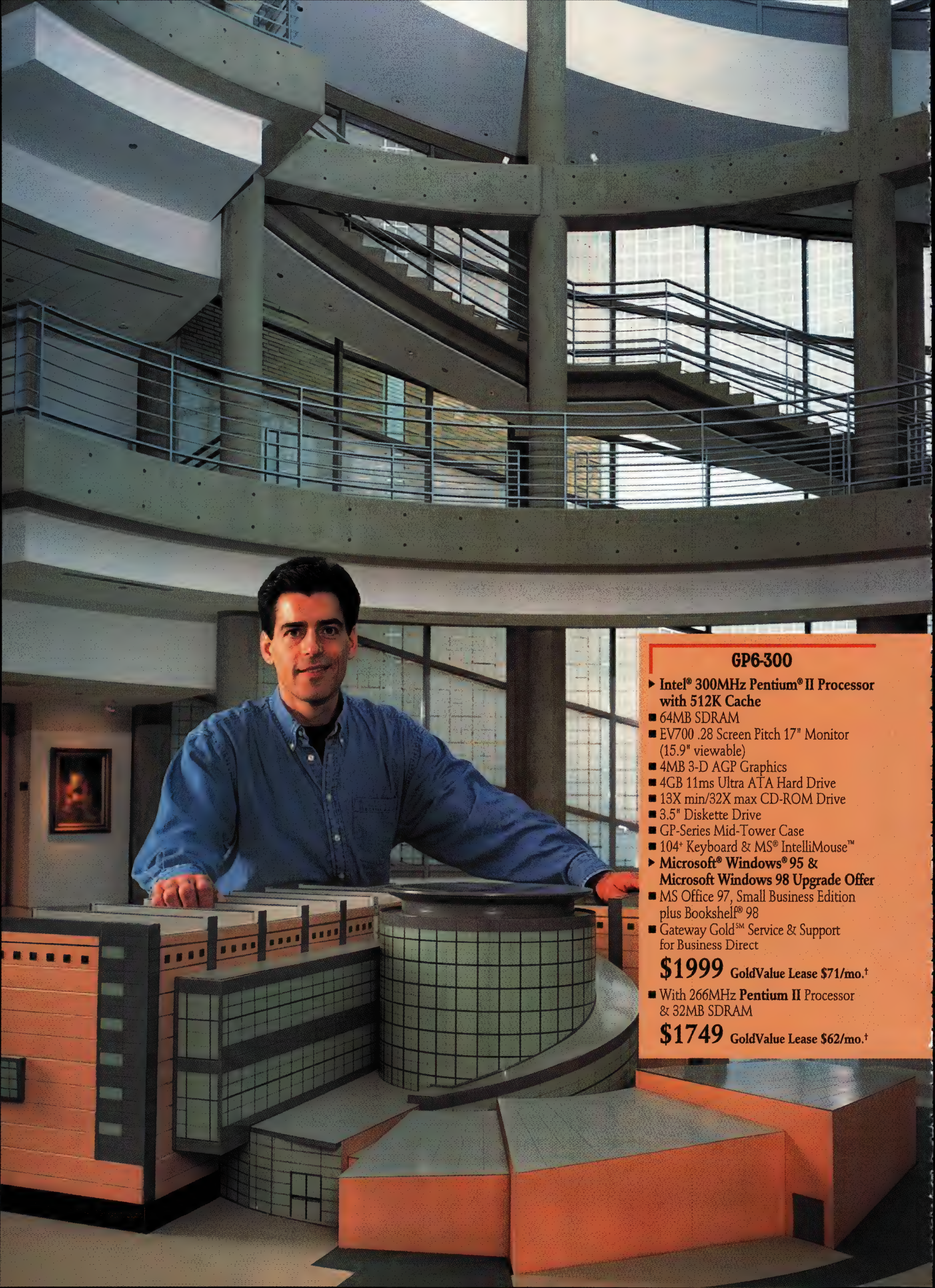

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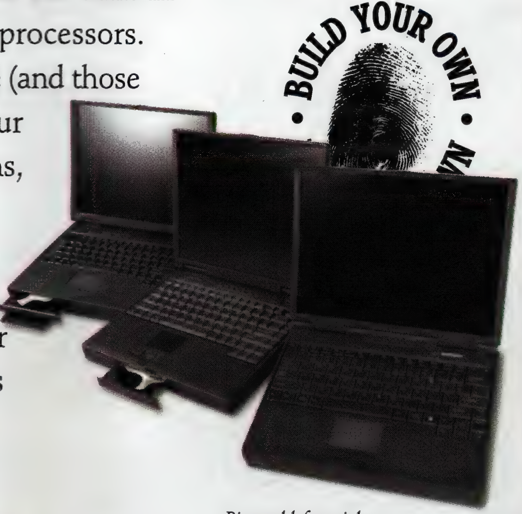

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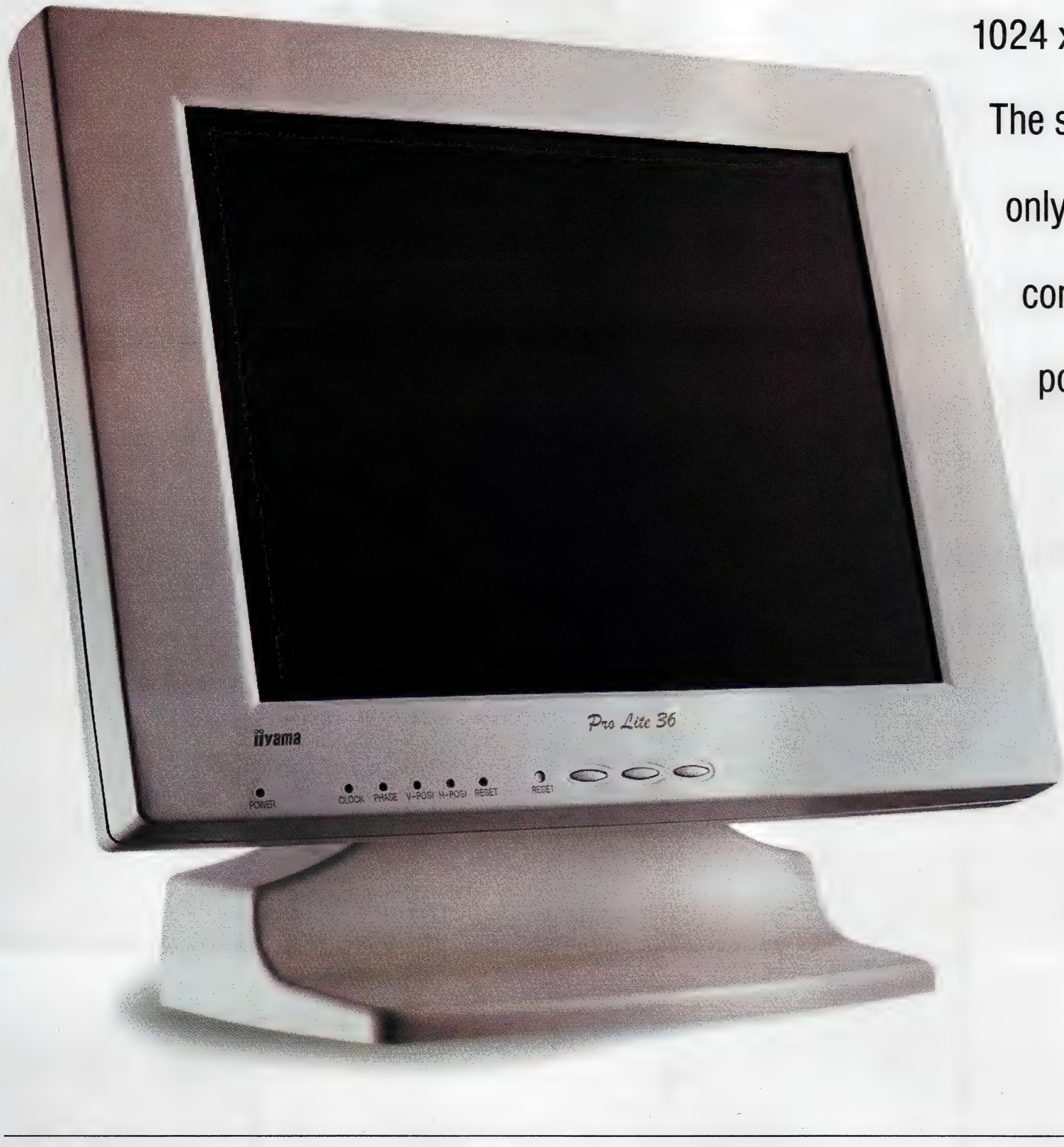

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**Three year parts and labor, 1 year backlight. Comparative prices and specifications are based on information provided by the manufacturers as of 12/31/97. Manufacturer's Estimated Price is shown, actual price may vary. Prices do not include shipping, handling, and any applicable taxes. Specifications are subject to change without notice. Offer valid only in the United States of America. As an Energy Star™ Partner, iiyama has determined that this product meets the Energy Star™ Guidelines for energy efficiency. For more information, please write us at 575 Anton Blvd., Suite 590, Costa Mesa, CA 92626. 888/663-2289, 714/437-5111; Fax:714/437-5982; Home Page: www.iiyamadirect.com

PC MAGAZINE Best of 1997
January 6, 1998
Vision Master Pro 17

CATALYST LABS 1998
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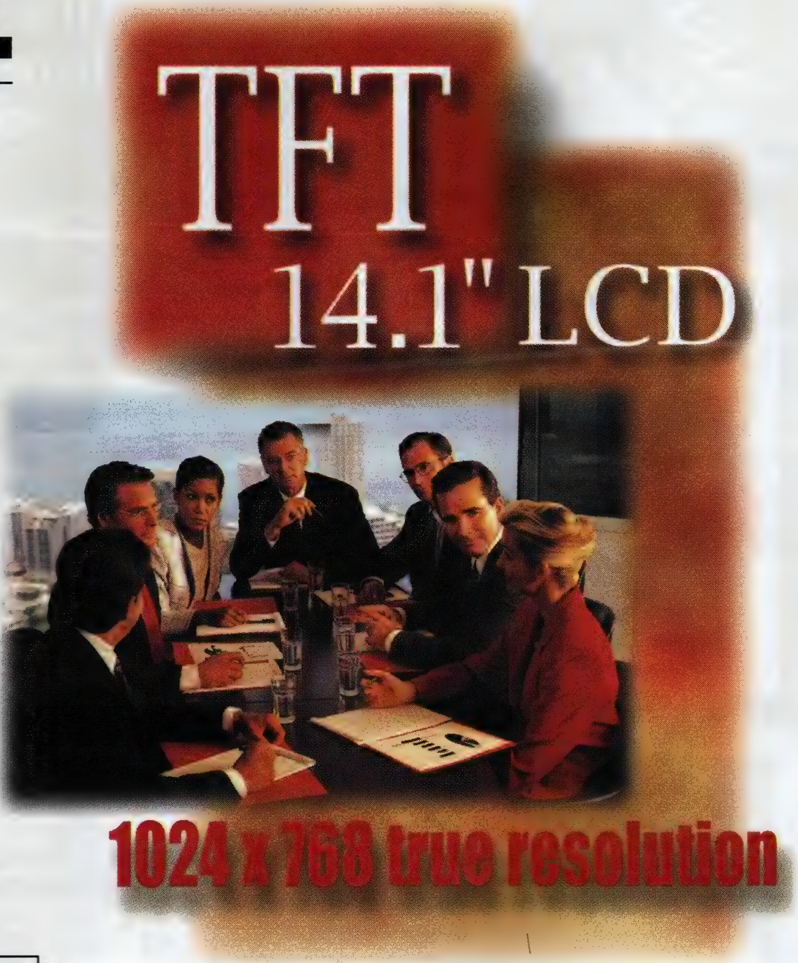

	iiyama ProLite 36	ViewSonic ViewPanel VP140	NEC LCD400V	Sceptre FT15G	CTX PanoView 630
Screen Size/Type	14.1"/TFT	14.0"/TFT	14.1"/TFT	14.5"/TFT	12.1"/TFT
Max. Resolution @ 75Hz	1024x768	1024x768	1024x768	1024x768	800x600
Minimum number of defective pixels for service or replacement	7, 2 if adjacent	7, 2 if adjacent	Depends on the count and location of the defects.	8	<19 White, 2 if adjacent <16 Dark, 2 if adjacent
Power Supply: Built-in/External	Built-in	External	Built-in	External	External
Warranty: Parts/Labor/Backlight	3/3/1 years	3/3/1 years	3/3/1 years	3/1/1 years	1/1/1 years
Price (Manufacturer's Estimated Price)	$1,348	$2,399	$1,998	$2,295	$2,295

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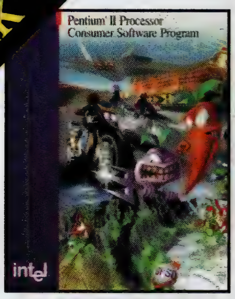
400MHz + AGP

PENTIUM® II PROCESSOR

GRAPHICS

AGP BONUS PAK



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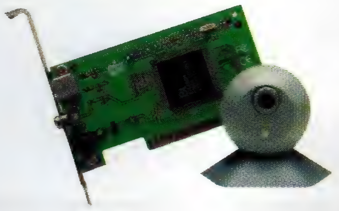

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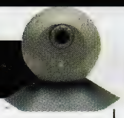

Computer Shopper REVIEW DECEMBER 1997

"ZENON DREAM MEDIA PRO TAKING COMPUTING POWER TO THE LIMIT"

Source: Page 502, December Issue, 1997 Computer Shopper Magazine

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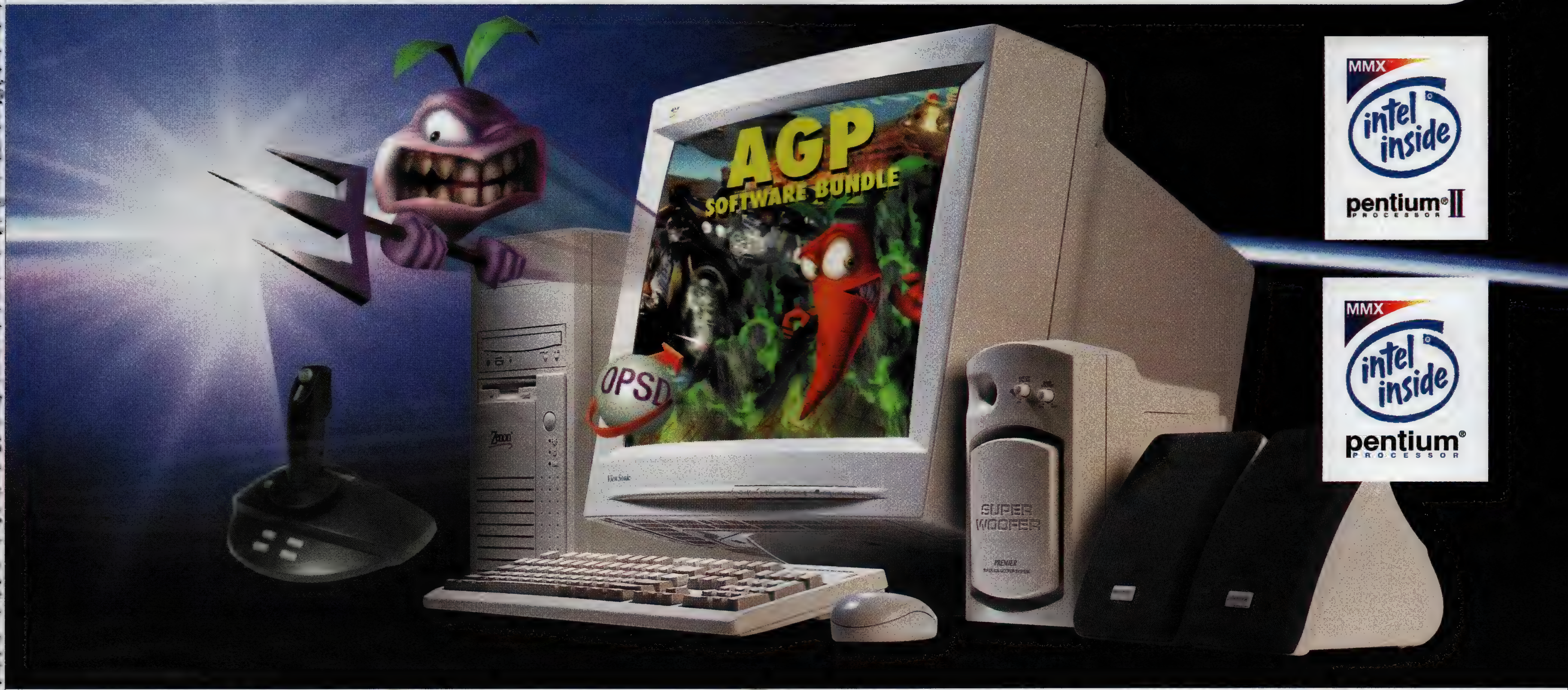

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- **FREE Color Digital Camera** with VDO Software
- **21"** Flat-Screen Digital Color Monitor, .25 DPI, 1600x1280@75Hz refresh
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- **Satellite Subwoofer Speakers**
- **Aztech K56Flex™ PCI** Data/Fax/Speaker Phone Modem
- **DVD 2nd Generation CD-ROM Drive**
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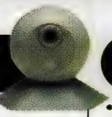

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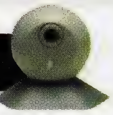

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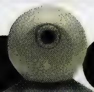

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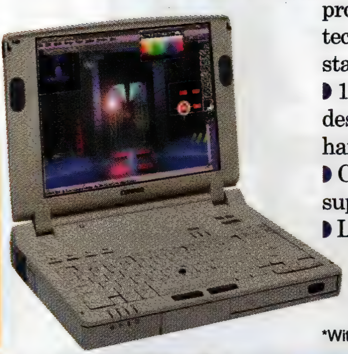

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$1998^87 CDW 86305

166MHz INTEL PENTIUM® MMX

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ThinkPad® 380ED

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IBM ThinkPad® 380XD

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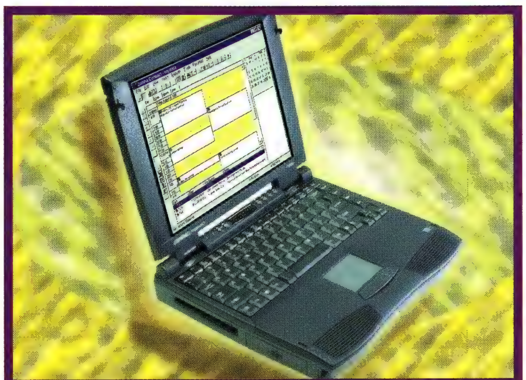

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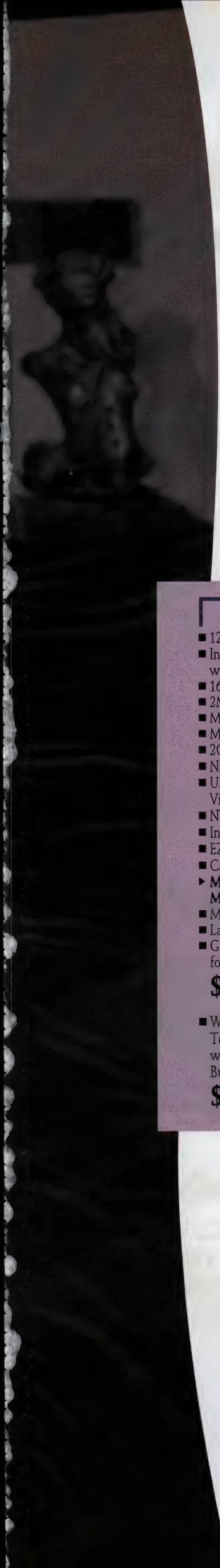

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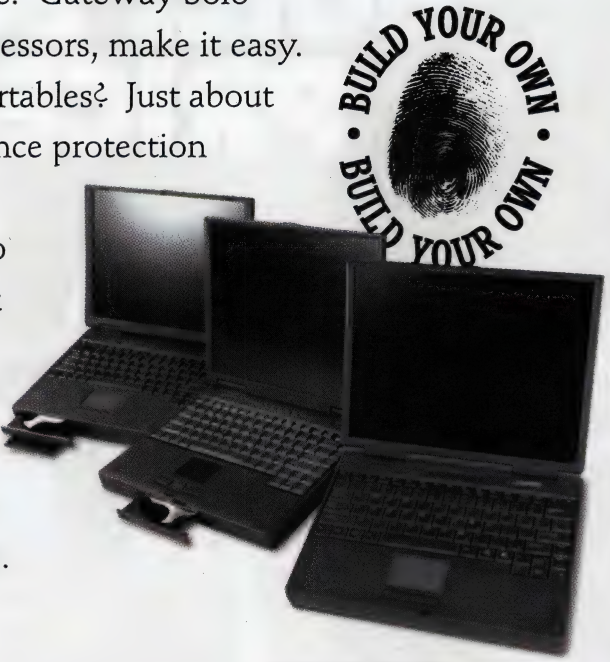

Pictured from left to right: Solo 9100, 5100 and 2300 PCs.

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Solo 9100, *PC Magazine* Editors' Choice Award, January 1998

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mobile computing

THE *VOYAGER* TAKES UNICENT INTO UNCHARTED NOTEBOOK TERRITORY

If there were a commandment that read, “Thou shalt not covet thy neighbor’s notebook,” then the specifications of Unicent Technologies’ entry into the portable-computer market would send your coworkers to confession. The Voyager 1330 is built around Intel Corp.’s 233MHz mobile MMX Pentium and Intel Mobile Module (IMM) architecture, which includes 512K of pipeline-burst L2 cache. If that’s not enough to start portable-envy, consider its 64MB of SDRAM, 13.3-inch active-matrix screen, 4GB hard drive, 20x CD-ROM drive, and $3,299 list price.

Weighing in at just under 8 pounds, the Voyager offers enough functionality to replace a desktop computer with little in the way of compromise. On the rear edge are the video-monitor-out, PAL or NTSC TV-out, PS/2 keyboard, USB, serial, and parallel ports. An RJ-11 jack reveals that an internal modem is installed—in this case, a Lucent Winmodem that offers 56Kbps data, fax, and voice capabilities.

If the configuration doesn’t make your coworkers jealous, the performance should. The Voyager sped through our application suite, earning a score of 16 on Winstone 98, 5 percent above average for this notebook class. The IBM DTCA-24090 hard drive’s score of 866 on our Business Disk WinMark was average.

Unicent’s venture into notebooks is met with applause, as its Voyager unit may be the apple of everyone’s eye.

Our unit’s 13.3-inch active-matrix screen was pixel-perfect but a little dark—its contrast control could be a bit more effective. Behind the scenes, a 64-bit Trident Cyber9397 graphics chip with 4MB of SGRAM pushes pixels up to a resolution of 1,024x768. The system’s above-average results on the Business Graphics WinMark 98 score demonstrate how capable this chip is.

The notebook’s expandability options consist of two CardBus-enabled PC Card slots that can hold either two Type II cards or one Type III card. The bottom slot supports Zoomed Video, a feature that gives peripherals plugged into the slot direct access to the graphics processor. The most common use of a Zoomed Video-enabled slot is for hosting image-capture devices such as digital cameras.

Unicent claims that the Voyager can run for three to four hours on one charge of its lithium-ion battery. On our BatteryMark endurance test, the Voyager lasted 3 hours and 2 minutes. Extra batteries can be purchased for $118.45.

Although the system has a nominal maximum memory of 128MB, Unicent ships the Voyager with both SO-DIMM slots filled. This means that adding more memory requires throwing out existing memory. However, given this system’s performance and configuration, it’s probably got the power to be a vital, useful piece of equipment for the next two or three years.

Our review system arrived with both Windows 95 OEM Service Release 2.1, which includes support for the system’s USB port, and Microsoft Office 97 Small Business Edition, which is a $149 option.

Unicent offers the kind of support that’ll let you sleep well at night. Beginning with the 30-day money-back guarantee and 24-hour toll-free technical support, your system is well-covered. Unicent promises next-day business pickup on any repairs—that is, you’ll have your under-warranty system back, fully repaired, within 48 hours. During the first 30 days, Unicent pays the freight both ways; after that, the customer and vendor each pay shipping one way. The system comes with a one-year warranty on parts and labor. You can purchase an additional year for $199 or two more years for $299.

Unicent Voyager 1330

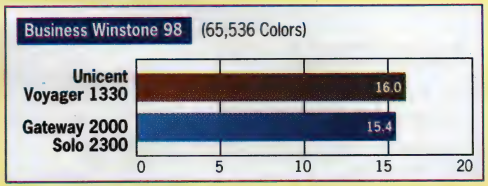
Unicent Technologies
300 Lena Dr.
Aurora, OH 44202
800-838-4480
Fax: 216-344-2655
www.unicent.com
List Price: $3,299

All in all, the Unicent Voyager 1330 does an admirable job of equipping you to work anywhere. The system’s few flaws include a slightly dim screen and memory-upgrade issues. But the Voyager’s virtues are many. Just try not to flaunt it too much in front of your coworkers—they may find it too tempting. ***—Amee Abel***

COMPUTER SHOPPER **MOBILE TEST SUITE**

Unicent Voyager 1330

	Unicent Voyager 1330 (64MB)	*Benchmark System:* Gateway 2000 Solo 2300 (32MB)
PROCESSOR TYPE	233MHz MMX Pentium 1,024x768	233MHz MMX Pentium 800x600
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	458	405
Graphics Subsystem Performance		
Business Graphics WinMark 98 65,536 Colors @ 1,024x768	83	82
Disk Subsystem Performance		
Business Disk WinMark 98	866	897
Multimedia Performance		
CD-ROM WinMark 98	947	914
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/0	0/0
CPU Utilization (%)	54/54	53/54
BatteryMark 2.0		
Battery Life (Hours:Minutes)	3:02	4:44



System as Tested: 64MB SDRAM; 512K pipeline-burst L2 cache; 4GB IBM DTCA-24090 hard drive; 20x Toshiba XM1602 CD-ROM drive; 13.3-inch active-matrix XGA display; Trident Cyber 9397 video chip with 4MB SGRAM; monitor-out, PAL or NTSC TV-out, PS/2 keyboard, USB, serial, and parallel ports; Two Type II or one Type III CardBus- and Zoomed Video-enabled PC Card slot; ESS 1869 AudioDrive; lithium-ion battery; Lucent Winmodem 56Kbps internal modem; Microsoft Office SBE; Windows 95 OEM Service Release 2.1

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

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PHOTOGRAPHY BY CHRIS GOULD

THE MEDIAGX-BASED *PRESARIO 1220* COMES IN AT UNDER $2,000

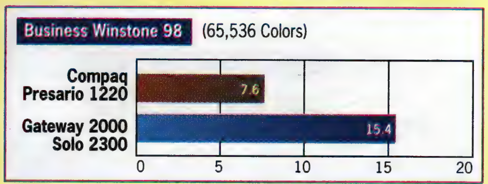
Until now, most of Compaq Computer Corp.'s entry-level notebooks have failed to distinguish themselves from the pack. With the Presario 1220, Compaq has remedied this problem and crafted an impressive entry-level portable.

The two most surprising aspects of the Presario are its CPU and its $1,999 list price. The Presario is equipped with Cyrix Corp.'s new 200MHz MediaGX processor, which until now has appeared only in desktop systems and which lets Compaq keep down the notebook's price. Armed with MMX technology, the MediaGX demonstrates that notebook manufacturers—and buyers—finally have a choice other than Intel Corp.

COMPUTER SHOPPER **MOBILE TEST SUITE**

Compaq Presario 1220

	Compaq Presario 1220 (32MB)	*Benchmark System:* Gateway 2000 Solo 2300 (32MB)
PROCESSOR TYPE	**200MHz MediaGX MMX 800x600**	**233MHz MMX Pentium 800x600**
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	205	405
Graphics Subsystem Performance		
Business Graphics WinMark 98 65,536 Colors	27	82
Disk Subsystem Performance		
Business Disk WinMark 98	583	897
Multimedia Performance		
CD-ROM WinMark 98	1,000	914
Video Playback (Native/Scaled)		
Frames Dropped (%)	44/78	0/0
CPU Utilization (%)	97/98	53/54
BatteryMark 2.0		
Battery Life (Hours:Minutes)	2:12	4:44



System as Tested: 32MB SDRAM; 2.1GB hard drive; integrated 1.44MB floppy drive; 20x CD-ROM drive; 12.1-inch HPA SVGA display; NeoMagic MagicGraph 128ZV+ integrated graphics chip with 1.1MB EDO DRAM; XpressAudio chip; internal Compaq 56Kbps data/fax modem; one Type II or one Type III PC Card slot; parallel, serial, video, PS/2, microphone-in, and headphone-out ports; built-in JBL Pro stereo speakers; touch-pad pointing device; NiMH battery; Windows 95 OEM Service Release 2

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

The Compaq Presario 1220 serves up an impressive array of hardware but it runs like a turtle.

Unfortunately, the Presario turned in some dismal test results, starting with a Business Winstone 98 score of just 7.6—which is equivalent to what a 133MHz Pentium-based notebook can do. The Presario produced a CPUmark$_{32}$ of 205—also about what a 133MHz Pentium-based notebook can manage. These scores aren't surprising considering that the Presario has no external cache. If you plan to run processor-intensive applications, the Presario 1220 may not deliver the horsepower you need.

The Presario cuts no corners in other hardware areas. It includes 32MB of SDRAM, a 2.1GB hard drive, and a 20x CD-ROM drive. The hard drive posted a Business Disk WinMark score of 583—again, lower than we would expect—and the CD-ROM drive turned in a respectable 1,000 on the CD-ROM WinMark test. Ultimately, the Presario is fine for basic functions such as word processing, Web browsing, finance management, and so on, but its slow hard drive is likely to choke high-end software.

The Presario's design integrates the floppy drive, the CD-ROM drive, and the 56Kbps fax modem (which currently supports the K56flex protocol, but will likely match the new universal 56Kbps standard by the time you read this). Neither drive is removable, so you can't swap in, say, a second battery or hard drive. Nor is the hard drive itself removable, meaning you're stuck with its 2.1GB capacity. Further limiting your expansion options, the Presario lacks a USB port, and its PC Card slot has room for only one Type II or Type III card. Even more surprising, this notebook has neither a built-in microphone nor an infrared data port.

Compaq Presario 1220
Compaq Computer Corp.
P.O. Box 692000
Houston, TX 77269-2000
800-345-1518
Fax: 713-518-1442
www.compaq.com
List Price: $1,999

What it does have is a crisp, bright, 12.1-inch High-Performance Addressing (HPA) display, which Compaq claims matches active-matrix quality. We wouldn't go that far, but the screen does look brighter and more uniform than most dual-scan LCDs we've seen. It also exhibits some of the ghosting common to dual-scan screens, but its overall picture quality is first-rate.

Powered by a 128-bit NeoMagic MagicGraph 128ZV+ integrated graphics chip and 1.1MB of EDO DRAM, the screen maxes out at 65,536 colors and 800x600 resolution. On our Graphics WinMark, the Presario scored a 27—not great, but not terrible. Again, if you don't venture into high-end applications, you'll be fine.

This notebook treats the ears as well as it does the eyes. Boasting a pair of JBL Pro speakers (mounted below the wrist rest so that they don't get muffled by your palms when you type), the Presario cranks out rich, loud, distortion-free audio that's sure to delight audiophiles. Even better, it has four external control buttons (play, stop, skip forward, and skip back) for quick and easy CD access.

Measuring 1.9x12.2x10 inches (HWD) and weighing 7.3 pounds, the Presario isn't the slimmest or lightest notebook around. But it is stylish, with flattering curves, a space-age-silver power button, and neon-green status LEDs. Although the Presario itself has no external battery gauge, its NiMH battery does. Alas, you have to remove the cell to use the push-button gauge, which lights up to show remaining power. The battery lasted 2 hours and 12 minutes on our punishing BatteryMark 2.0 test—another average score.

The Presario's 88-key keyboard proved generally comfortable for everyday typing. The extra-large, responsive touch pad merits kudos, as do the buttons beneath it. The left mouse button is much wider than the right, which makes sense given that the former is generally used more frequently.

Compaq bundles a good mix of Microsoft software with the Presario, including Works 4.5, Encarta 98, and Bookshelf 98. You also get Moto Racer, an enjoyable action game that unfortunately doesn't play well on notebook screens.

As is common with entry-level notebooks, the Presario's warranty lasts for one year. Unfortunately, so does its technical support. Compaq generously provides toll-free 24-hour phone support, but only as long as the unit is under warranty. After that, you'll be charged for each call. There is good news, however—you can buy an extra two years of warranty/support coverage for $109. Plus, Compaq pays the shipping both ways for units returned for service.

When you buy an entry-level portable, you expect to forfeit a few amenities. In the case of the Presario 1220, those amenities are expandability and performance. Otherwise, this is a well-rounded portable that's a good choice for college students, small-business users, or anyone on a strict budget. ***—Rick Broida***

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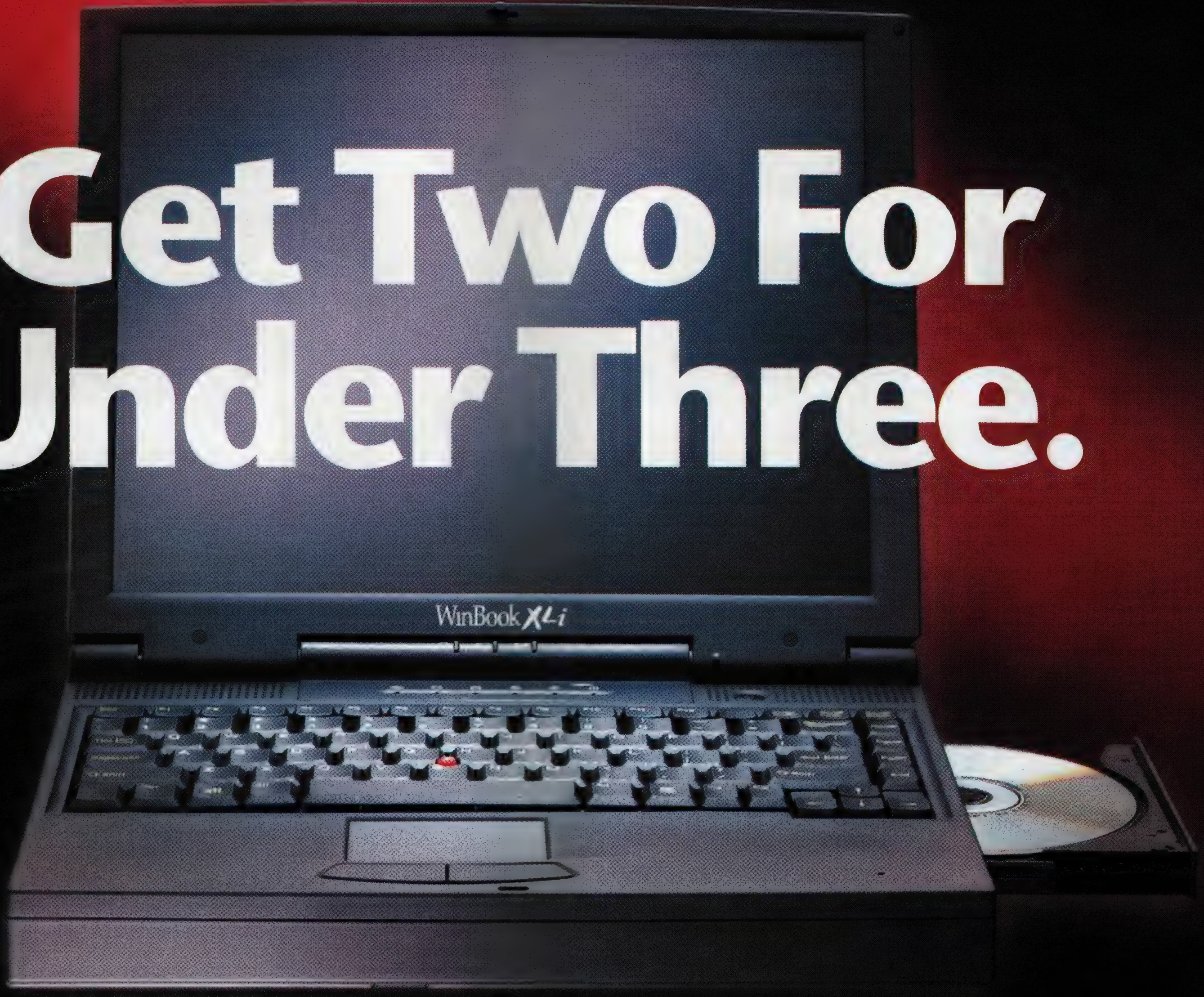

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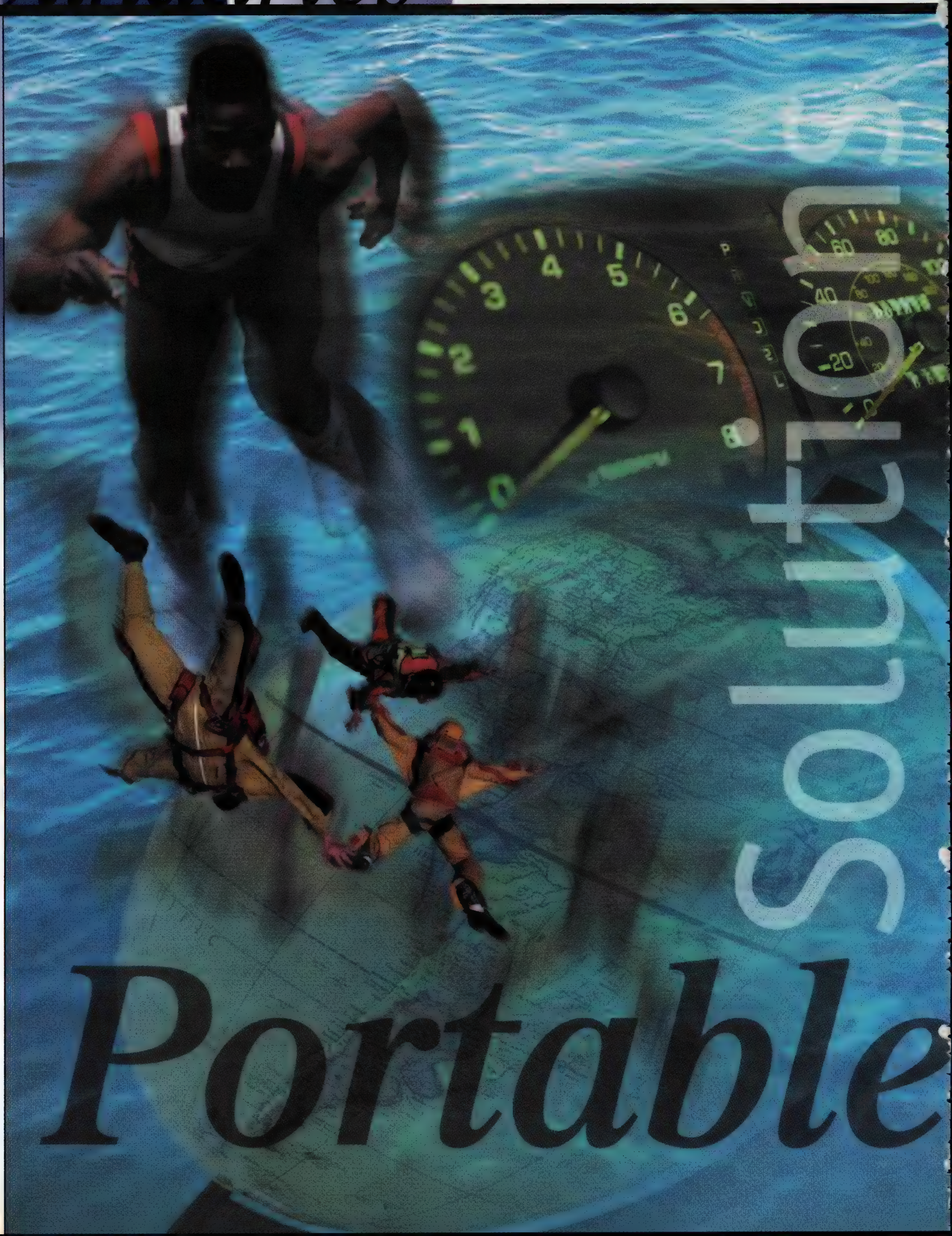
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MPEG compatible
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2 infrared ports, S-Video, NTSC, game, USB ports
24X CD-ROM drive with AutoPlay technology
128-bit, 2MB DRAM graphics
CardBus and Zoomed Video
16-bit stereo sound and microphone
56Kbps fax/modem[†]
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[†] Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and observed transfer rates may be less than the maximum potentials.

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TEAC'S *PORTACD 10X* PACKS A PC CARD AND CD-ROM DRIVE TO GO

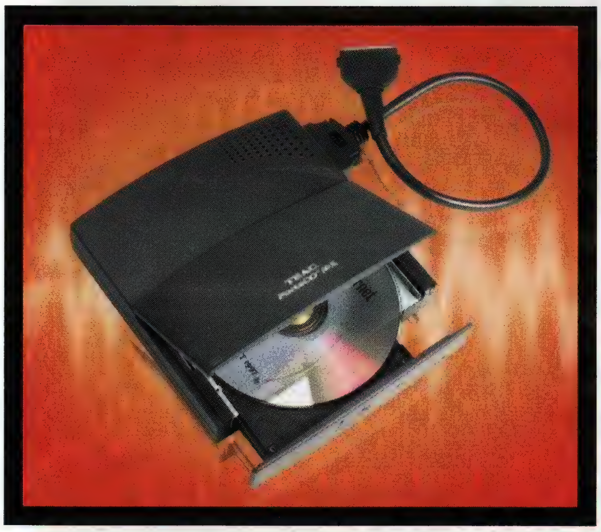
If you have an older notebook, chances are you don't have a CD-ROM drive. This can be a real problem when you want to install the latest applications, since most new software now comes on CD. In this case, you may find Teac America's external CD-ROM drive, the PortaCD 10X, to come in handy. With a manufacturer's estimated price of $249, the PortaCD not only delivers solid performance and is easy to install, it is also affordable.

PortaCD 10X
Teac America
7733 Telegraph Rd.
Montebello, CA 90640
213-726-0303
Fax: 213-727-7652
www.teac.com
Mfr. Est. Price: $249

The PortaCD is a svelte 1.23 pounds and measures 1.6x5.9x6 inches (HWD). The unit can plug into your notebook via either the parallel port or a Type II PC Card slot; all you have to do is connect it to its proprietary PCMCIA/IDE Type II PC Card via a 16.5-inch cable and connect the cable to the PC Card adapter.

Next to the PortaCD's PC Card adapter are the power, headphone, and line-out ports (the line-out ports are for Audio CD output). Unfortunately, there are no audio CD controls, which can be convenient. In addition, the unit has no battery-power options; it must be used near a wall socket, which limits its portability.

The PortaCD comes with drivers for DOS, Windows 3.1, and Windows 95. It was a snap to install under Windows 95 on our Gateway 2000 Solo 2300 testbed. All we had to do was pop the PC Card into an open slot. When the notebook detected it, we installed the appropriate driver from the included floppy disk. To install the drive under DOS, you'll need to have some form of card and socket services loaded before installation.


The easy-to-install PortaCD from Teac offers mobile users a good balance between portability and performance.

The unit delivered a solid performance on the WinBench 98 CD-ROM tests. It achieved a CD-ROM WinMark 98 score of 764 and an access time of 208ms, nearly as fast as the Solo 2300's built-in 10x drive, which scored 889 and 167ms, respectively. The PortaCD didn't do so well on the CPU utilization, however, drawing on 99 percent of the CPU to reach its peak transfer rate, compared to the 51.8 percent the Solo's internal drive used. That's fairly typical for a CD-ROM attached through a PC Card.

The PortaCD doesn't offer any extras, such as built-in audio, but the CD-ROM provides good performance in a lightweight unit. ***—Patrick Norton***

THE *CREDITCARD* CONNECTS YOU IN AND OUT OF THE OFFICE

The new CreditCard Ethernet 10/100+Modem 56 from Xircom can shuttle your data from here to there in less time than it takes to say its name. With an estimated price of $379, the CreditCard is exactly what its name suggests—a combination Fast Ethernet interface with a 56Kbps fax modem, all in a single Type II PC Card package.

CreditCard Ethernet 10/100+Modem 56
Xircom
2300 Corporate Center Dr.
Thousand Oaks, CA 91320
800-438-4526; 805-376-9300
Fax: 805-376-9311
www.xircom.com
Mfr. Est. Price: $379

Most Ethernet installations use 10BaseT twisted-pair technology, which supports up to 10Mbps transfer rates. The CreditCard will automatically sense if the network is running at that speed and adjust itself accordingly.

The CreditCard also includes a 56Kbps modem based on the K56flex technology. Like other modems of this type, the 56Kbps transfer rates are only for downloaded data, and only if the phone lines and the host system can support it. Uploaded data and connections on incompatible lines run at rates of up to 33.6Kbps.

Installation and setup are fairly easy. The CreditCard is Plug and Play, and the drivers install quickly and easily from the included disks.

The CreditCard performed impressively when transferring files. It took just 1 minute and 49 seconds to transfer 30.1MB of data from a desktop system to a laptop. The file listings on the shared drive popped up on the screen so quickly that it was like looking at a local drive.

The CreditCard modem was tested in a controlled environment using line simulators and a 56Kbps Diamond Supra PC Card as the reference card. Both the CreditCard and the Supra consistently connected at 42Kbps on lines with low impairment levels.

However, the CreditCard transferred our highly compressible text file and slightly compressible executable file 6 and 8 percent times faster, respectively, than the Supra. The CreditCard's advantage fell to less than 3 percent when transferring our incompressible Zip-like file.

Xircom
Xircom
CreditCard
Ethernet 10/100+
Modem 56
The CreditCard lets a mobile user get in touch when in the office or stay in touch when away.

The CreditCard's docking module has sockets for the phone line and Ethernet plugs. The module is a bit less than 3 inches wide, so it extends beyond the PC Card slots. On the Sharp notebook we used for testing, this blocked the connector for the AC power, forcing us to utilize battery power whenever we used the card.

Xircom provides a limited lifetime hardware warranty. The company's technical support is readily available; our test call was answered within two minutes, and a patient technician responded to all our questions.

You can easily pay more for separate 10/100 Ethernet and 56Kbps fax-modem PC Cards, but with the CreditCard, you have the convenience of a single device for both. If you have a serious need for speed, this card can get your data where you want it in a hurry.

—Alfred Poor

SECTION CONTINUES ON PAGE 228

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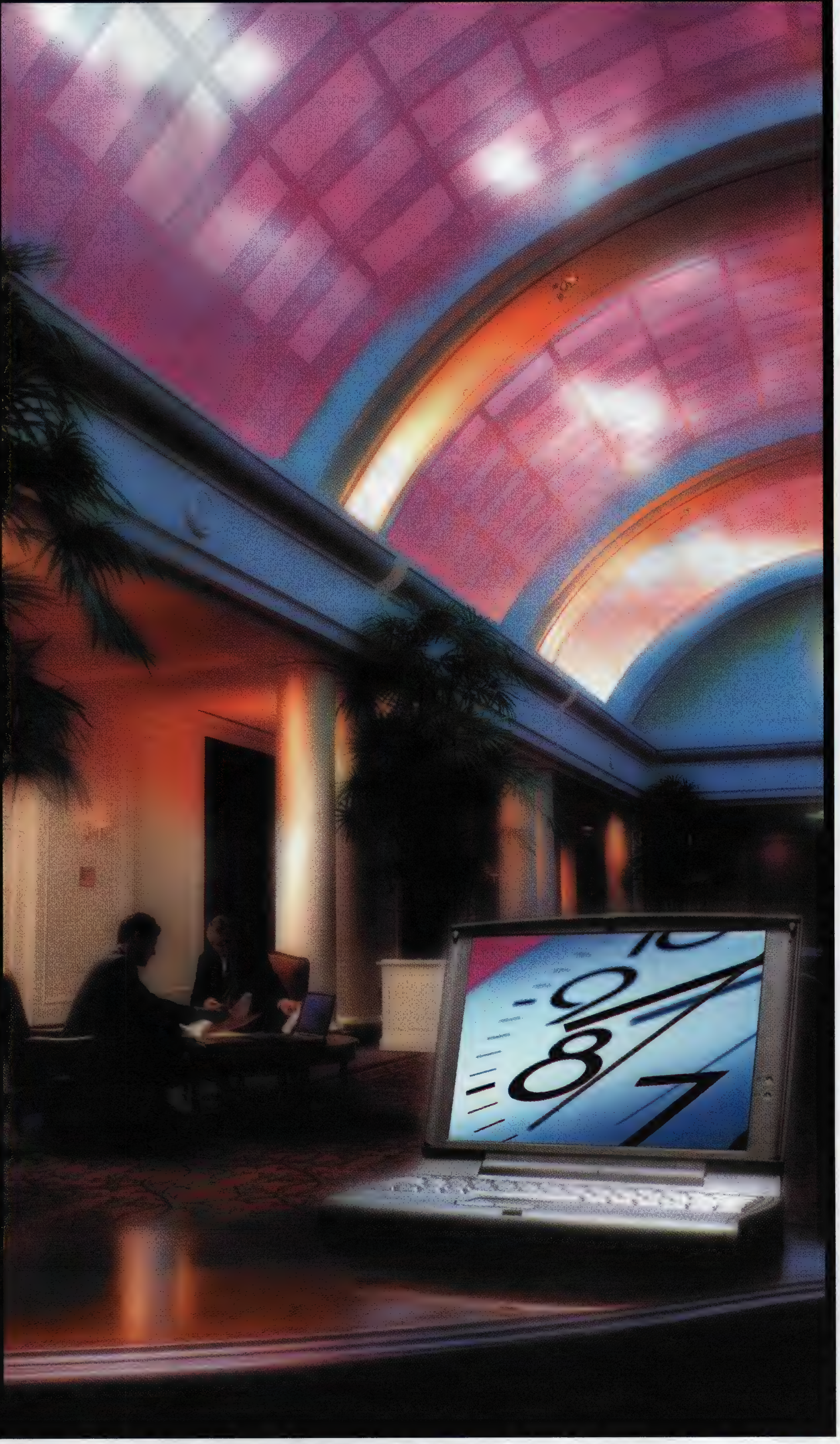

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- 144MB SDRAM
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- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
- 6.9 Pounds*

★ *Inspiron Port Replicator, add $159.*
★ *3Com® 10/100 Fast Ethernet Adapter, add $169.*
★ *2nd Smart Lithium Ion Battery, add $169.*

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NEW DELL INSPIRON 3200 D266XT

266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 13.3" XGA Active Matrix TFT Display
- 80MB SDRAM
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capable** x2 Modem
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FEATURING MMX TECHNOLOGY

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- 64MB SDRAM
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- Leather Carrying Case
- MS Office 97 Small Business Edition
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WITH MMX TECHNOLOGY

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- 64MB SDRAM
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- MS Office 97 Small Business Edition
- 6.9 Pounds*

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233MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK
Common features listed above plus:
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- 128MB EDO RAM
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
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- MS Windows NT® Workstation 4.0
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- 13.3" XGA Active Matrix TFT Display
- 80MB EDO RAM
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- Leather Carrying Case
- 6.4 Pounds*

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WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK
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- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 6.4 Pounds*

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★ *Leather Carrying Case, add $99.*

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WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK
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- 12.1" SVGA Active Matrix TFT Display
- 48MB EDO RAM
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 16 Million Colors at 800x600
- 56K Capableπ K-Flex Modem
- 5.9 Pounds*

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WITH MMX TECHNOLOGY

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- MS Office 97 Small Business Edition
- 6.4 Pounds*
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WITH MMX TECHNOLOGY

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- 3.2GB Ultra ATA Hard Drive
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- 5.9 Pounds*
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- ★ *56K Capable^π K-Flex Modem, add $199.*
- ★ *Leather Carrying Case, add $99.*

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Business Lease◊: $114/Mo., 36 Mos.
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200MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK

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- 2.1GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 16 Million Colors at 800x600
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These four notebooks represent the fastest processing power available at prices that are guaranteed to sell.

BY DANIEL A. BEGUN

It was just last January that Intel Corp. introduced the 266MHz mobile MMX Pentium processor. But faster than you can say, "Obsolete," Intel has once again played Power Ranger and introduced a higher-performing mobile processor, the Intel Mobile Pentium II processor, in 266MHz and 233MHz speeds.

The Mobile Pentium II processor integrates a 32K L1 cache and 512K pipeline-burst L2 cache. Using a 0.25-micron-die-size manufacturing process, roughly 7.5 million transistors are crammed into the CPU. The die size also allows the processor core to run at 1.7 volts, contributing to prolonged battery life.

Clockwise from top left: Dell Inspiron 3200 D266ST; Quantex H-1331; Transmonde Vivanté SE 266; Gateway 2000 Solo 9100 LS

In this roundup, we look at four notebooks using the 266MHz Mobile Pentium II Processor: Dell Computer Corp.'s Inspiron 3200 D266ST, Gateway 2000's Solo 9100 LS, Quantex Microsystems' H-1331, and Transmonde Technologies' Vivanté SE 266. Direct prices range from $2,999 for the Dell Inspiron 3200 D266ST to $4,299 for the Gateway 2000 Solo 9100 LS. Both the $3,499 Quantex H-1331 and $3,349 Transmonde Vivanté SE 266 are just below the average price of $3,537. These notebooks represent significant price reductions for top-of-the-line portables. You can chalk up the lower prices to a sharp drop in costs for components such as hard drives and active-matrix displays.

On average, the two 266MHz Mobile Pentium II processor-based systems in this roundup equipped with 64MB of RAM achieved a 9 percent performance gain on Business Winstone 98 over the five similarly equipped 266MHz mobile Pentium-based notebooks we've tested to date. If you are contemplating one of these notebooks as a desktop replacement, note that their overall performance lags behind that of the 266MHz Pentium II-based desktop systems we have tested by about 12 percent due to slower drive and graphics subsystems. Average battery life is above two hours, but roughly 20 percent less than that of the 266MHz mobile MMX Pentium-based notebooks.

Each notebook comes with at least 32MB of RAM, the new Intel Mobile 440BX chip set, a 3.2GB or larger hard drive, a 16x or faster CD-ROM drive, a 13.3-inch or larger active-matrix display, and a lithium-ion battery. Note that three of the four notebooks we looked at were preproduction units.

DELL INSPIRON 3200 D266ST / QUANTEX H-1331

Dell's $2,999 Inspiron 3200 D266ST and Quantex's $3,499 H-1331 notebooks are nearly identical systems—in fact, both are manufactured by the Taiwanese company Compal. A few differences exist between them, however. Most notable is that the H-1331 costs $500 more than the Inspiron—but the H-1331 comes with a second lithium-ion battery, a 56Kbps modem, and a port replicator. Add these items to the Inspiron, and its price becomes $3,456, which is close to the H-1331's. The two systems have the smallest form factor of the group, measuring 1.8x11.9x9.2 inches (HWD) and weighing 6.6 pounds.

Note that though the Inspiron's BIOS was preproduction, Quantex claimed that the H-1331 we tested was a production-level unit.

Dell uses displays from IBM and Samsung, but Quantex would only volunteer that its displays come from any one of 10 manufacturers. In our test units, Dell's Inspiron had the brightest display, but suffered from duller colors. The H-1331, on the other hand, featured one of the sharpest displays and the richest colors in the group. Both units' screens can display up to 65,536 colors and are visible even when viewed at an angle. Both screens had two bad pixels. Quantex considers a

COMPUTER SHOPPER BENCHMARKS (HIGHER SCORES ARE BETTER.)

	BETA Dell Inspiron 3200 D266ST (64MB)	BETA Gateway 2000 Solo 9100 LS (32MB)	Quantex H-1331 (64MB)	BETA Transmonde Vivanté SE 266 (32MB)	Benchmark System Gateway 2000 Solo 2300 (32MB)
PROCESSOR TYPE	266MHz Pentium II	266MHz Pentium II	266MHz Pentium II	266MHz Pentium II	233MHz MMX Pentium
RESOLUTION	1,024x768	1,024x768	1,024x768	1,024x768	800x600
BUSINESS WINSTONE 98	18.1	18.8	17.5	16.0	15.4
WINBENCH 98					
PROCESSOR SUBSYSTEM PERFORMANCE					
CPUmark$_{32}$	682	692	689	667	405
GRAPHICS SUBSYSTEM PERFORMANCE					
Business Graphics WinMark 98 65,536 Colors	86	101	86	74	82
DISK SUBSYSTEM PERFORMANCE					
Business Disk WinMark 98	934	930	872	756	897
MULTIMEDIA PERFORMANCE					
CD-ROM WinMark 98	1,400	989	1,060	771	914
Video Playback (Native/Scaled)					
Frames Dropped (%)	0/0	0/0	0/0	0/0	0/0
CPU Utilization (%)	48/48	48/48	45/46	39/39	53/54
BATTERYMARK 2.0					
Battery Life (Hours:Minutes)	2:28	2:52	2:32/5:33 *	NA	4:44

* Quantex Battery Life is shown with one and two batteries installed NA=Not available

display defective if it has 10 or more bad pixels; Dell has no set policy, treating each display on a case-by-case basis.

Both systems use a NeoMagic 128XD graphics chip with 2MB of iDRAM to support up to 16-bit color at their native resolution of 1,024x768. When displaying simultaneously on an external monitor and screen, both systems support a refresh rate of 60Hz at all resolutions. When displaying solely to a monitor at 1,024x768 and 16-bit color, they are capable of 75Hz. With 24-bit color at 800x600 and 640x480, they support a refresh rate of 85Hz when displaying only on a monitor.

Using a Crystal 4237 audio chip set, both systems produce impressive audio. The Inspiron uses a Yamaha SoftSynthesizer S-YXG50 driver—which the H-1331 lacks—to provide MIDI playback that approaches that of hardware wavetable quality. The H-1331's MIDI playback was not as good. Neither had any noticeable bass response.

Both units position their multifunction drive bay on the right side of the system. The bay houses either the floppy drive, the CD-ROM drive, or a second battery. The included floppy drive can be warm-swapped out of the bay and can also be used externally via the bundled parallel-port cable. Both systems come with 24x CD-ROM drives, but the Inspiron uses a Toshiba XM-1702BC, while the H-1331 uses a Torisan CDR-U240-Z. The system must be powered off when the CD-ROM drive is swapped out. The H-1331 comes standard with a second lithium-ion battery, but it is a $169 option for the Inspiron. Next to the drive bay is the battery bay, which holds the primary 2,700mAh lithium-ion battery.

Ports on the system's back include Fast IR, USB, VGA, ECP/EPP parallel, serial, PS/2, and a docking connector. Whereas the port replicator is a $159 option for the Inspiron, it is included with the H-1331. The port replicator features a Kensington lock slot, MIDI/joystick, VGA, parallel, serial, audio line-in, line-out, microphone, two PS/2, and two USB ports. The port replicator also includes stereo speakers, which are louder and clearer than the H-1331's built-in speakers, but they still don't produce any noticeable bass response.

The left side of the system contains a Kensington lock slot; audio line-in, line-out, and microphone ports; one Type III or two Type II PC Card slots; and access to the same removable 4.09GB IBM DTCA-24090 hard drive that is in the Gateway system. Presently, this is the largest hard drive size available for the Inspiron and H-1331. The underside of the unit contains access to two SO-DIMM slots. Both systems come with 16MB integrated into the system board, and one 16MB and one 32MB module.

While both the Inspiron and the H-1331's Business Winstone performance scores were within the 3 percent margin of error of the group average, the Inspiron was slightly more than 3 percent faster than the H-1331. This can be partially explained by the Inspiron's faster hard drive subsystem. Although both systems use the same hard drive, the Inspiron earned a score that was 7 percent above average for the group, and the H-1331 only gives an average showing. The Inspiron's Toshiba CD-ROM drive gave the fastest performance of the roundup, at a whopping 33 percent above average. The H-1331's Torisan drive was average.

The Inspiron and H-1331 virtually tied on the BatteryMark 2.0 test with scores of 2 hours and 28 minutes, and 2 hours and 32 minutes, respectively. With its included second lithium-ion battery installed, the H-1331 stretched battery life to an amazing 5 hours and 33 minutes.

The H-1331 is available with Windows NT 4.0 at no extra cost. A 56Kbps modem comes standard with the H-1331, but is a $129 option for the Inspiron. Both Dell and Quantex offer technical support 24 hours a day. Both warranties cover parts and labor for one year, but the H-1331 also covers the CPU and RAM for three years.

The Inspiron and H-1331 offer an excellent balance of price and performance, without sacrificing on features. For the budget-minded, the Inspiron can't be beat; and with all the extras, the H-1331 offers the most value in the roundup.

GATEWAY 2000 SOLO 9100 LS

At $4,299, Gateway 2000's Solo 9100 LS is the most expensive notebook in the roundup. But when you consider its 14.1-inch display, 3-D graphics hardware acceleration, 4MB of graphics memory, hardware wavetable audio playback, DVD-ROM drive, large-capacity battery, and 56Kbps modem, the price seems reasonable. In fact, with all the added features in the Solo, it's no wonder that the 2.2x12.3x9.6-inch (HWD), 8.6-pound unit is the biggest and heaviest in the roundup. (The unit we looked at was a preproduction unit—our system came with a beta BIOS and graphics driver, and the DVD software was missing.)

The Solo is the only system to include a Mitsubishi 14.1-inch active-matrix display and has the only screen to display a maximum of 262,000 colors. The Solo's display is sharp and vivid, and can be viewed at an angle. Our unit suffered from two bad pixels. Gateway lacks an official policy regarding defective displays, but claims to treat each case based on customer satisfaction.

The Solo uses a Trident Cyber9397 PCI graphics chip, which also performs 3-D hardware acceleration. It is the only system in the roundup to include 4MB of VRAM, which allows the system to support 32-bit color up to its native resolution of 1,024x768. When displaying simultaneously to the display and a CRT, the Solo supports a 60Hz refresh rate; however, when displaying exclusively to a CRT, the Solo supports up to an 85Hz refresh rate at all resolutions. The Solo and Transmonde systems can also output their signals to a television set, but the Solo is the only system to include video-capture capabilities. Also unique to the Solo is a C-Cube ZiVA-DS chip, capable of hardware DVD/MPEG-2 and Dolby AC-3 decoding. Regretfully, DVD playback was not enabled on our unit.

Audio-playback quality was excellent. The speakers are even cable of generating some bass response, thanks to the Yamaha YM715 and YM704B audio chip sets.

MOVIN' RIGHT ALONG TO MOBILE PENTIUM II

The chip sets allow the Solo to support hardware wavetable audio, which is a rarity.

The Solo is the only system to place its multifunction drive bay on its front. The multifunction drive squeezes both the floppy and Toshiba SD-C2002 DVD-ROM into a single combination unit. The DVD-ROM drive reads DVD-ROM discs at 2x and CD-ROM discs at 16x. The drive can only be swapped out when the system is powered off, and it cannot be used externally. The Solo is available with a 24x CD-ROM/floppy combo unit for $400 less. The drive bay can also hold an optional second battery, which sells for $200.

Next to the drive bay is the removable 4.09GB IBM hard drive. Upgrading to a 8GB hard drive costs an additional $500. Also on the front edge of the system is the battery bay, which holds the 3,900mAh lithium-ion battery.

The back of the Solo contains a Kensington lock slot and PS/2, serial, VGA, docking, ECP/EPP parallel, MIDI/joystick, Fast IR, audio line-in, line-out, microphone, headphone, video-in, and video-out ports. The Solo's left side houses the one Type III or two Type II PC Card slots and the volume wheel. The Solo is the only system with two USB ports, which are located on the system's right side. The undercarriage of the Solo grants access to three SO-DIMM slots. Although our unit arrived with only 32MB of SDRAM, the shipping version will come standard with a single 64MB module; with 64MB, the Solo costs only $70 more.

The Solo turned in the best overall performance of the group. With a Business Winstone score of 18.8, the Solo is 7 percent above average, no doubt helped by the best hard drive and graphics performance in the roundup. The Solo tied with the Dell system for fastest hard drive subsystem, and its leading score of 101 on the Graphics WinMark test was 16 percent above the average.

Using hardware-based 3-D graphics acceleration, the Solo's score of 163 on the 3D WinBench test may not compete with Pentium II desktop systems, but it is good enough to get by on most 3-D-based games. A higher-capacity 3,900mAh lithium-ion battery helped the Solo compensate for its potentially energy-sapping 14.1-inch display, garnering a respectable time of 2 hours and 52 minutes on the BatteryMark test.

Add another $99 if you want the Solo with Windows NT 4.0. Both the Solo and the Quantex systems include a 56Kbps modem. Gateway offers technical support 24 hours a day, along with a one-year parts-and-labor warranty.

The solo may be the most expensive notebook in the roundup, but no other notebook can match the features of this desktop-replacement unit.

TRANSMONDE VIVANTÉ SE 266

Relatively new to the portable scene, Transmonde has been selling notebooks since November 1996. Transmonde has no standard configuration, but instead builds each system to order. We looked at the $3,349 Vivanté SE 266, a preproduction unit.

Due to bugs in its design, the system wouldn't recognize SDRAM, nor would it utilize memory above 32MB. Because the battery subsystem was also preproduction, we were unable to coax the battery into providing consistent battery numbers. The Vivanté included an early version of the 440BX chip set, which may be responsible for the system's less than stellar performance. Both the BIOS and TouchWriter pointing devices were also preproduction. At 2x12.3x9.5 inches (HWD), the Vivanté is almost as bulky as the Gateway system, but at 6.8 pounds, it is about as light as the notebooks from Dell and Quantex.

The Vivanté was the only system in our roundup that didn't suffer from any bad pixels. Transmonde's policy is that three bad pixels or two bad connecting pixels render a display defective. The 13.3-inch display supports up to 65,536 colors and is manufactured by either NEC or Samsung. The quality of the display is just as good as those of the Gateway and Quantex systems.

A Chips and Technologies 65555 PCI graphics chip with 2MB of EDO DRAM supports up to 16-bit color at the system's native resolution of 1,024x768. At 640x480 and 800x600, the system supports 24-bit color. When displaying its image to the screen and CRT simultaneously, the Vivanté supports a 60Hz refresh rate; however, when sending the signal only to a CRT, the Vivanté supports up to an 85Hz refresh rate at all resolutions. Like the Gateway system, the Vivanté can also send its graphics signal to a television set.

(continued on page 234)

PRODUCT LISTING

Dell Inspiron 3200 D266ST

Dell Computer Corp.
1 Dell Way
Round Rock, TX 78682
800-388-8542; 512-338-4400
Fax: 512-728-3653
www.dell.com
Direct Price: $2,999
beta BIOS

Gateway 2000 Solo 9100 LS

Gateway 2000
610 Gateway Dr.
N. Sioux City, SD 57049
800-846-2000; 605-232-2000
Fax: 605-232-2023
www.gateway.com
Direct Price: $4,299
beta BIOS, graphics driver, DVD software

Quantex H-1331

Quantex Microsystems
400B Pierce St.
Somerset, NJ 08873
800-836-0566; 732-563-4166
Fax: 732-563-0407
www.quantex.com
Direct Price: $3,499

Transmonde Vivanté SE 266

Transmonde Technologies
17515 Valley View Ave.
Cerritos, CA 90703
888-988-2883; 714-562-0928
Fax: 714-562-8052
www.transmonde.com
Direct Price: $3,349
beta BIOS, motherboard chip set, battery subsystem

FEATURES COMPARISON

	Dell Inspiron 3200 D266ST	**Gateway 2000 Solo 9100 LS**	**Quantex H-1331**	**Transmonde Vivanté SE 266**
Direct Price	$2,999	$4,299	$3,499	$3,349
Dimensions (HWD)	1.8x11.9x9.2	2.2x12.3x9.6	1.8x11.9x9.2	2x12.3x9.5
Weight With CD-ROM/Floppy Drives (Pounds)	6.9/6.6	8.6/8.6	6.9/6.6	6.9/6.6
System RAM Installed/Maximum	64MB SDRAM/144MB	32MB SDRAM/192MB	64MB SDRAM/144MB	32MB EDO/256MB SDRAM
Motherboad Chip Set	Intel Mobile 440BX chip set	Intel Mobile 440BX chip set	Intel Mobile 440BX chip set	Intel Mobile 440BX chip set
Hard Drive Manufacturer and Model	IBM DTCA-24090	IBM DTCA-24090	IBM DTCA-24090	Hitachi DK226A-32U
Hard Drive Capacity Installed/Maximum (GB)	4.1/4.1	4.1/8.0	4.1/4.1	3.2/5.0
CD-ROM Drive Manufacturer and Model/Speed	Toshiba XM-1702BC/24x	Toshiba SD-C2002/16x	Torisan CDR-U240-Z/24x	Toshiba XM-1602B/20x
DVD-ROM Drive Speed	NA	2x	NA	NA
Display Size and Type	13.3-inch XGA active matrix	14.1-inch XGA active matrix	13.3-inch XGA active matrix	13.3-inch XGA active matrix
Max. Color Depth at Native Resolution	16-bit	32-bit	16-bit	16-bit
Graphics Chip/Amount of Memory	NeoMagic MagicGraph 128XD/2MB iDRAM	Trident Cyber9397 PCI/4MB VRAM	NeoMagic MagicGraph 128XD/2MB iDRAM	Chips and Technologies 65555 PCI/2MB EDO DRAM
Output to TV (Yes/No)	No	Yes	No	Yes
Video Capture (Yes/No)	No	Yes	No	No
Ports	Serial, ECP/EPP parallel, VGA, PS/2, USB, Fast IR, dock, microphone, line in, line out	Serial, ECP/EPP parallel, VGA, composite video out/ video in, PS/2, two USB, Fast IR, dock, MIDI/joystick, microphone, line in, line out, headphone	Serial, ECP/EPP parallel, VGA, PS/2, USB,Fast IR, dock, microphone, line in, line out	Serial, ECP/EPP parallel, VGA, composite video out, PS/2, USB, Fast IR, dock, floppy, microphone, line in, line out
PC Card Slots	Two Type II/one Type III	Two Type II/one Type III	Two Type II/one Type III	Two Type II/one Type III
Battery Type	Lithium-ion, 2,700mAh, 14.4V	Lithium-ion, 3,900mAh, 14.4V	Lithium-ion, 2,700mAh, 14.4V	Lithium-ion, 4,050mAh, 14.4V
Sound Chip/Sound Synthesis	Crystal 4237/FM	Yamaha YM715, YM704B/wavetable	Crystal 4237/FM	ESS Maestro-2/FM
Modem	None	Gateway TelePath 33.6 Modem With x2 Technology	Askey 1456VQC-T2 56Kbps	None
Parts-and-Labor Warranty	One year	One year	One year	One year
Technical Support Hours (ET)	24 hours daily	24 hours daily	24 hours daily	6 a.m. to 6 p.m. weekdays (PT)

NA= Not available

POWERED BY THE AMD-K6, THE *XL* OFFERS EXCELLENT VALUE

Contrary to popular belief, a good notebook computer does not have to come from a big-name manufacturer or sport an "Intel Inside" logo. If you are willing to entertain these seemingly blasphemous notions, then you stand to save a considerable amount of money. WinBook Corp.'s latest entry in its XL line of notebooks, the $2,558 WinBook XL K6 233MMX, blows the bottom end off the price point for 233MHz notebooks.

The usual price for notebooks with 233MHz processors at press time appeared to start at least $1,000 higher. WinBook keeps the XL's price down by choosing less expensive components, such as its smaller 12.1-inch active-matrix display.

WinBook XL K6 233MMX

WinBook Corp.
1160 Steelwood Rd.
Columbus, OH 43212
800-651-4519
Fax: 800-448-0308
www.winbook.com
Direct Price: $2,558

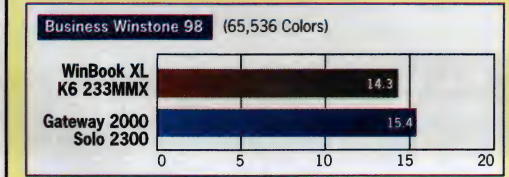
Another way WinBook keeps the XL's price down is to use the brand-new 233MHz AMD-K6 MMX mobile processor from AMD. Like the Pentium, the K6 uses a 0.25-micron process and includes the MMX instruction set. The K6's Level 1 cache of 64K, however, is twice as big as the Pentium's 32K. On the other hand, the Pentium still has the K6 beat on core voltage—1.8 volts versus 2.1 volts, respectively.

If the XL is any indication of the K6's potential, the difference in voltage does not translate into a shorter battery life. In fact, using a 4,050mAh lithium-ion battery, the XL's running time of 3 hours and 40 minutes on our BatteryMark 2.0 test is 20 percent above the average for 233MHz Pentium notebooks—a less power-hungry, smaller display is also a contributing factor. With a Business Winstone 98 score of 14.3, the XL drops below the average Pentium system by about 8 percent. This is not a tremendous lag and can be explained by the below-average performance of the XL's drive and graphics subsystem.

COMPUTER SHOPPER MOBILE TEST SUITE

WinBook XL K6 233MMX

	WinBook XL K6 233MMX (32MB)	*Benchmark System:* Gateway 2000 Solo 2300 (32MB)
PROCESSOR TYPE	233MHz MMX AMD-K6	233MHz MMX Pentium
RESOLUTION	800x600	800x600
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	481	405
Graphics Subsystem Performance		
Business Graphics WinMark 98 65,536 Colors	65	82
Disk Subsystem Performance		
Business Disk WinMark 98	772	897
Multimedia Performance		
CD-ROM WinMark 98	1,060	914
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/0	0/0
CPU Utilization (%)	57/58	53/54
BatteryMark 2.0		
Battery Life (Hours:Minutes)	3:40	4:44

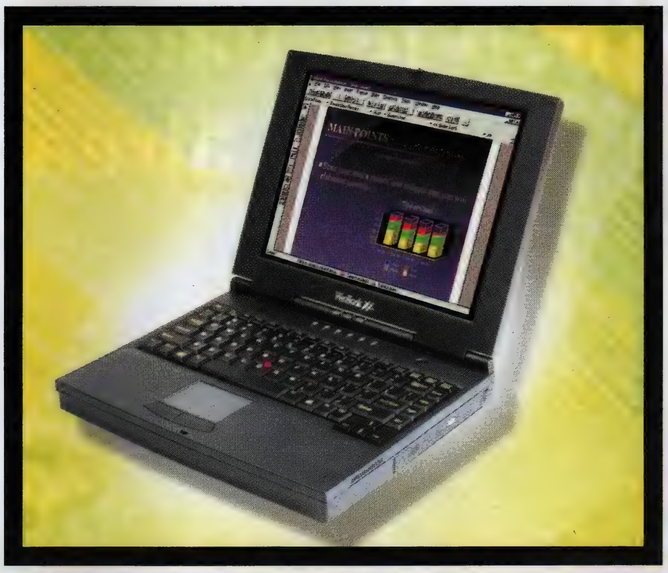


System as Tested: 32MB EDO DRAM; 256K pipeline-burst L2 cache; Intel core-logic 430TX chip set; AMI BIOS; removable 2GB ATA-3 Hitachi DK226A-21U hard drive; Panasonic JU-226A032F floppy drive; 20x ATAPI Toshiba XM-1602B CD-ROM drive; Chips and Technologies 65554 PCI graphics chip with 2MB EDO DRAM; 12.1-inch SVGA active-matrix display; Yamaha YMF-715 audio chip; integrated stereo speakers and microphone; integrated Askey V1456VQL14J 56Kbps data/fax/voice modem; 4,050mAh lithium-ion battery; one Type III or two Type II PC Card slots; 87-key keyboard; touch pad and pointing stick; Windows 95 OEM Service Release 2.1

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

Bucking the modularity trend of many notebooks, the XL includes a Toshiba 20x XM-1602B CD-ROM drive, a Panasonic JU-226A032F 1.44MB floppy drive, and a 56Kbps Askey V1456VQL14J fax/data/voice modem—yet still manages to weigh in at 7.3 pounds, which is reasonable considering its bulky 2.1x12x9.5-inch (HWD) design.

Whereas many of today's notebooks come with a single USB port, the XL has two. Other ports on its backside include a serial port, an ECP/EPP parallel port, a PS/2 port, a VGA port, a composite-TV-out port, and a port-replicator connector. The XL's left side has the floppy drive; a Kensington lock slot; and RJ-11, microphone, headphone, and audio-line-in jacks. Also on the left side are the one Type III or two Type II PC Card slots. Both slots can use CardBus cards, and the bottom slot can use Zoomed Video cards. On the right side of the XL are a Fast IR port, a slide-out security anchor, and a CD-ROM drive.



Using the 233MHz AMD-K6 MMX mobile processor, WinBook's latest XL notebook reaches for the stars in performance and price.

The floppy drive can be slid out by removing a single screw on the underside of the XL; you would only do this to gain access to the 2GB Hitachi DK226A-21U hard drive. Access to the two SO-DIMM slots is also through the bottom of the system. Both slots currently hold 16MB EDO DRAM modules, and the system can utilize up to 128MB.

Using a Chips and Technologies 65554 PCI graphics chip and 2MB of EDO DRAM, the XL supports a native resolution of 800x600 with 24-bit color, and a virtual resolution of up to 1,280x1,024 with 256 colors. Although the system is limited to a refresh rate of 60Hz when displaying on the LCD and an external monitor simultaneously, it supports a more comfortable 85Hz at 1,024x768 resolution and 16-bit color when displaying exclusively on a monitor. The XL's LCD displays up to a total of 64,000 colors. The review notebook's display was bright, but visibility quickly dropped off when we viewed at an angle. The lower-right corner had a single bad pixel. WinBook will consider a panel defective if it has nine or more bad white pixels, 12 or more bad black pixels, or four or more black pixels within a half millimeter of each other.

Using a Yamaha YMF-715 audio chip, the XL produces good-quality sound. Although the XL's wavetable synthesis is produced through software emulation, its quality comes close to that of hardware-generated synthesis. Our unit, however, arrived with two problems: Windows reported a DMA conflict between the sound chip and the IR port, and the internal microphone didn't work. The DMA conflict was easily resolved, but assistance from two WinBook technicians could not get the microphone operational.

The XL comes with a one-year parts-and-labor warranty. Toll-free phone support is available from 8 a.m. to 9 p.m. on weekdays (ET), and from 9 a.m. to 4 p.m. on Saturdays. Our attempt to reach support resulted in numerous busy signals; when we finally got through, we had to hold for 10 minutes.

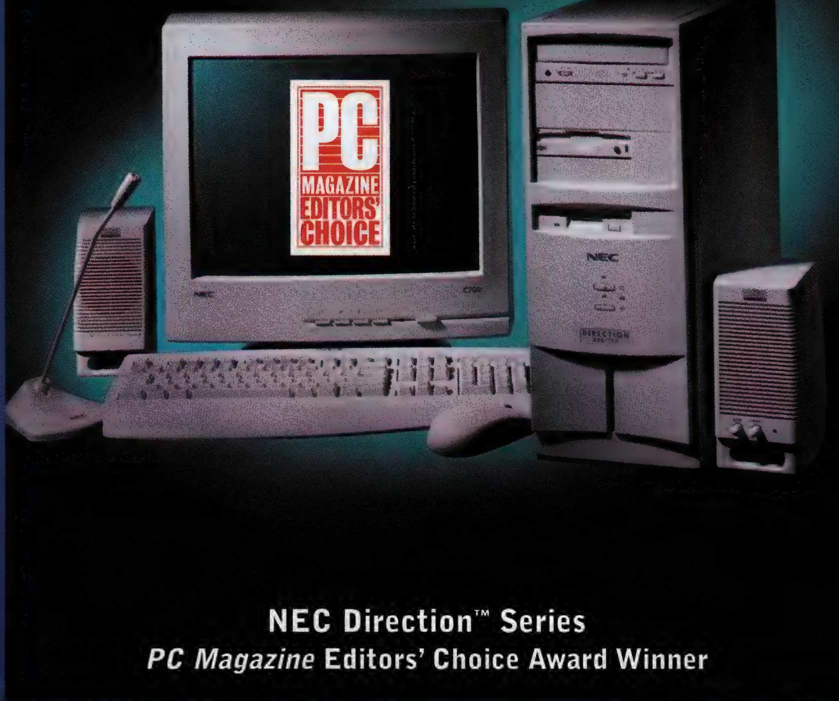
If your primary concern is to save money but still get the same relative performance as you would from a more expensive notebook, then the XL is a hard deal to beat.

—Daniel A. Begun

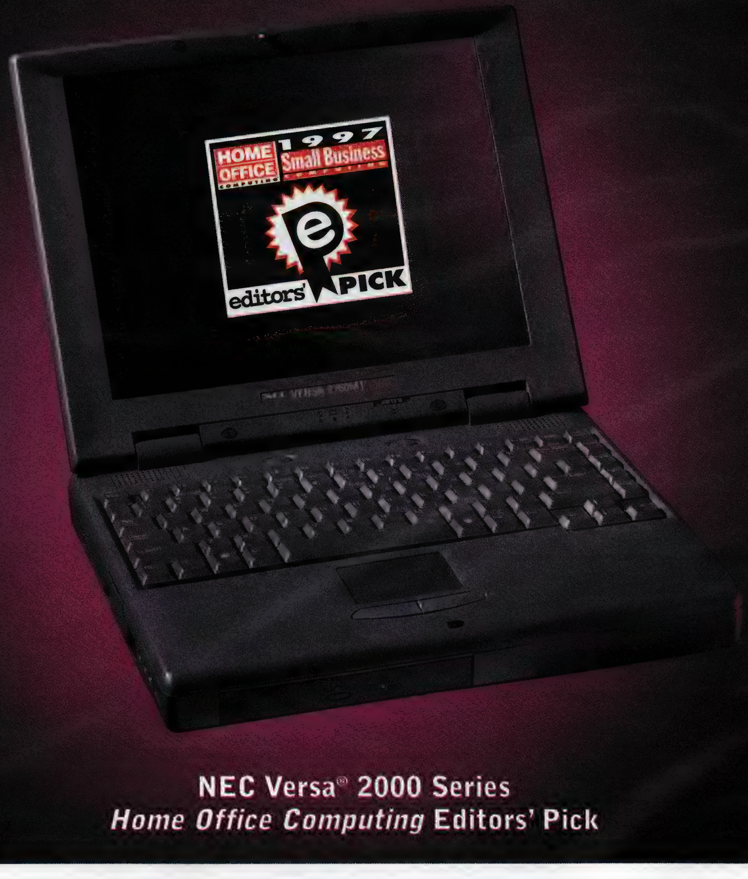
When it comes to value, they should win an award.

(When it comes to performance, they already have.)

[Shown with optional NEC C700 17" Monitor (16" viewable)]



NEC Direction™ Series
PC Magazine Editors' Choice Award Winner



NEC Versa® 2000 Series
Home Office Computing Editors' Pick

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For government pricing call 1-888-4-GOV-NEC

The performance is incredible. The offer is too.

PC Magazine gave the NEC Direction Series its coveted Editors' Choice Award.* *Home Office Computing* put one of our Versa 2000 Series on its Editors' Pick List.** And now we've priced them so that putting them on your desk couldn't be easier.

- **Best-of-class components** — to keep you ahead of technology from a company with a proven track record of technological innovation.
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- **Ironclad service and support** — a 24-hour, 7-day-a-week technical support line; a 30-day money-back guarantee; a 3-year limited warranty with 1-year on-site service (for Direction); 1-year free UltraCare℠ service with option to upgrade (for Versa).

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IN FOCUS' DIGITAL *LP420* GETS PERSONAL WITH PROJECTORS

In the world of projectors, anything under 15 pounds is thought of as portable—so In Focus' 6.8-pound LP420 is quite a feat. Even more impressive is the surprisingly bright image that this lightweight projector produces. Add in the compact 4x9x11.8-inch (HWD) case design and the low $5,999 list price, and it's fair to say that In Focus has hit a home run with what it calls the first personal projector.

In Focus LP420

In Focus
27700B S.W. Parkway Ave.
Wilsonville, OR 97070
800-294-6400; 503-685-8888
Fax: 503-685-8887
www.infocus.com
List Price: $5,999

The LP420 is a Digital Light Processing (DLP) projector. At the heart of DLP technology is Texas Instruments' Digital Micromirror Device (DMD), a chip with hundreds of thousands of mirrors. DLP engines reflect red, green, and blue light off the mirrors and through a lens. Most DLP projectors until now have used TI's DLP engine, but while the LP420 uses TI's DMD, it employs an In Focus engine, which is responsible for the light weight and small size.

The projector offers 24-bit color, a native 800x600 resolution, and the ability to accept 640x480, 1,024x768, and standard Mac resolutions. As with any LCD or DLP projector, interpolation from these resolutions degrades the image, but it's still better than not being able to use those resolutions at all. The 500 ANSI lumen rating is enough so that a 60-inch diagonal image is easily visible in a fully lit room. According to In Focus, it's suitable for images as large as 180 inches diagonally.

Setup is remarkably easy. Plug in the power cord and the cable to your computer's video, optionally plug in a cable from one S-Video or composite-video source, and adjust the manual focus (there is no zoom). Notable for its absence is a remote control, although two options are available: a $70 executive version with a pointer or a $106 version that imitates the control panel on the projector. You may also want the $225 Cable Wizard, which lets you plug in a second video source and control the mouse pointer from the remote.

The LP420 covers all the portable-projector bases by offering light weight, bright images, and low price.

In our tests using Sonera Technologies' DisplayMate, the LP420 handled most test screens acceptably or better. However, the center third or so of the screen was brighter than the left and right sides. The difference was noticeable in PowerPoint slides with solid backgrounds, but not with photos or gradient fills. The 1-watt monophonic speaker was marginally tinny and slightly overmodulated at peak volume, but loud enough for a small to midsize conference room.

The package includes a soft-shell case that's smaller than some pocketbooks. The total weight, complete with cables and case, is under 9 pounds—less than any other projector we've seen, for the projector alone. That puts the In Focus LP420 in a class by itself. And the combination of portability, video quality, and price makes it the portable projector to beat.

—M. David Stone

MOVIN' RIGHT ALONG TO MOBILE PENTIUM II

(continued from page 230)

Using an ESS Maestro-2 audio chip set, the Vivanté produced good-quality audio. MIDI playback sounded close to that of hardware wavetable caliber, but the audio distorts if the volume is turned up too high. Like most of the other systems, the audio lacked noticeable bass.

The Vivanté's right side contains the multifunction drive bay, which holds either the floppy or 20x Toshiba XM-1602B CD-ROM drive—the shipping version of the system will come with a 24x drive. For an additional $400, the system comes with a DVD-ROM drive and integrated MPEG-2 daughter card. The floppy drive can be used externally with the included proprietary cable. The drive bay can also hold optional Zip or LS-120 drives ($200 each). Transmonde reports that the shipping version of the Vivanté will support warm-swapping—and possibly hot-swapping—of any device in the drive bay. Unlike the other notebooks in the roundup, the drive bay cannot utilize a second lithium-ion battery.

Also on the right side of the system are the volume wheel; audio line-in, line-out, and microphone ports; and a battery bay. The battery bay houses the 4,050mAh, 14.4-volt lithium-ion battery—the largest-capacity battery in the roundup.

The back of the system contains the PS/2, USB, docking, floppy, ECP/EPP parallel, serial, VGA, and Fast IR ports. Composite-video-out and the PC Card slots are located on the Vivanté's left side. Access to the removable 3.24GB Hitachi DK226A-32U hard drive is on the underside of the system. Upgrading to a 4.1GB hard drive costs $100, and upgrading to a 5GB drive costs $180. Also on the bottom of the system is access to the system's two SO-DIMM slots. Although our unit contained two 16MB EDO DRAM modules, the shipping unit will come with a single SDRAM module. Upgrading to 64MB will cost an additional $200.

The Vivanté uses a TouchWriter pointing device—a touch-pad-type device that can be activated with any object, such as your finger or a pen. Software is included that allows you to capture your signature and paste it into any application.

The Vivanté's last-place Business Winstone score was 9 percent below average for the group. This lag in performance can be partially blamed on the slower graphics and hard drive subsystems. Graphics performance was 15 percent below average, and its hard drive showing was 13 percent below average.

We ran the BatteryMark test multiple times on the Vivanté, and got wildly varying scores that ranged from a little as 1 hour and 11 minutes to as long as 3 hours and 53 minutes. Since we could not produce a reliable result, we decided not to report a BatteryMark score in the benchmark table for the Vivanté.

The Vivanté is the only system to come with Internet Explorer 4.0 preinstalled. No other software, however, is included. Ordering the system with Windows NT 4.0 is a $150 upgrade. Technical support is available from 6 a.m. to 6 p.m. (PT) on weekdays, and the Vivanté includes a one-year parts-and-labor warranty.

Each of the Vivanté's present limitations should be ironed out by the time you read this. It is also likely that the shipping version will feature performance that comes closer to the other notebooks'. What separates the Vivanté from the rest of the pack are the upgrade options that the other systems lack and its potential for hot-swapping of devices, which may be enabled by the time you read this. ▼

For information on how we test notebooks, see "How We Test" in this issue's Reference section.

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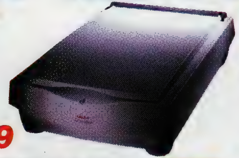

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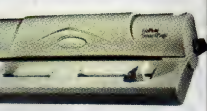

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- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots supports ZV-Port & Card Bus
- 1 Lithium-Ion Battery
- Ports: 1 USB, 1S, 1P, Ext. Keyboard, Ext. CRT, and FIR Infra Red
- Microsoft Windows 95

$2245	*200MHz with MMX Technology*
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- 3D Surround Sound w. Hardware Wavetable
- 2 Stereo Speakers and 1 Microphone
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- Ports: 1 USB, 1S, 1P, TV-Out, Ext. Keyboard, Ext. CRT, and FIR Infra Red
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32MB EDO RAM (Max. 128MB)
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- 3D Surround Sound w. Hardware Wavetable
- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots supports ZV-Port & Card Bus
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- Ports: 1 USB, 1S, 1P, TV-Out, Ext. Keyboard, Ext. CRT, and FIR Infra Red
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2MB SGRAM 3D Graphics Accelerator
32MB EDO RAM (Max. 128MB)
Removable 2.1GB HDD (3.0GB or 4.0GB opt.)

- 24X CD-ROM Drive
- Removable 3.5" 1.44MB FDD
- 3D Surround Sound w. Hardware Wavetable
- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots supports ZV-Port & Card Bus
- 1 Lithium-Ion Battery
- Ports: 1 USB, 1S, 1P, Ext. Keyboard, Ext. CRT, and FIR Infra Red
- Microsoft Windows 95

$2045	*200MHz with MMX Technology*
$2095	*233MHz with MMX Technology*

3300 12.1tft

12.1" 800x600 SVGA TFT Display
Intel Pentium® II or Tillamook Processor
512KB L2 Pipeline-Burst Cache
4MB SGRAM 3D Graphics Accelerator
32MB EDO RAM (Max. 128MB)
Removable 3.0GB HDD (2.1GB or 4.0GB opt.)

- 24X CD-ROM Drive (2X DVD-ROM optional)
- Removable 3.5" 1.44MB FDD
- 3D Surround Sound w. Hardware Wavetable
- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots supports ZV-Port & Card Bus
- 1 Lithium-Ion Battery
- Ports: 1 USB, 1S, 1P, TV-Out, Ext. Keyboard, Ext. CRT, and FIR Infra Red
- Microsoft Windows 95

$2345	*266MHz Tillamook Processor*
$2645	*266MHz Pentium® II Processor*

Options

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32MB EDO RAM (Max. 72MB)
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- 1MB Mask ROM Hardware Wavetable for Sound FX
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- Built-in Touchpad Pointing Device
- 3 Type II or 1 Type II & 1 Type III PCMCIA slots, 1 slot supports Zoom-Video Port
- 1 Lithium-Ion Battery
- Ports: 1S, 1P, TV-Out, Game/MIDI, Ext. Keyboard, Ext. CRT, and FIR Infra Red
- Microsoft Windows 95

$1745	*200MHz with MMX Technology*
$1795	*233MHz with MMX Technology*

6100 12.1tft

12.1" 800x600 SVGA TFT Display
Intel Pentium® Processor
512KB L2 Pipeline-Burst Cache
2MB Video RAM
16MB EDO RAM (Max. 128MB)
Removable 2.1GB HDD (3.0GB or 4.0GB opt.)

- 20X CD-ROM Drive
- Removable 3.5" 1.44MB FDD
- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type II & 1 Type III PCMCIA slots, 1 slot supports Zoom-Video Port
- 1 NiMH Battery
- Ports: 1S, 1P, TV-Out, Game/MIDI, Ext. Keyboard, Ext. CRT, and SIR Infra Red
- Microsoft Windows 95

$1495	*200MHz with MMX Technology*
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256 KB L2 Pipeline-Burst Cache
2MB Video RAM
16MB EDO RAM (Max. 48MB)
Removable 1.4GB HDD (2.1GB, 3.0GB or 4.0GB opt.)

- 20X CD-ROM Drive
- Removable 3.5" 1.44MB FDD
- 2 Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type II & 1 Type III PCMCIA slots, 1 slot supports Zoom-Video Port
- 1 NiMH Battery
- Ports: 1S, 1P, TV-Out, Game/MIDI, Ext. Keyboard, Ext. CRT, and SIR Infra Red
- Microsoft Windows 95

$1345	*200MHz with MMX Technology*
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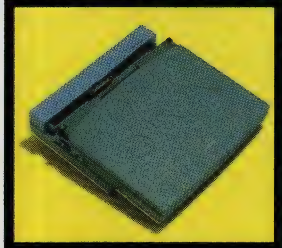

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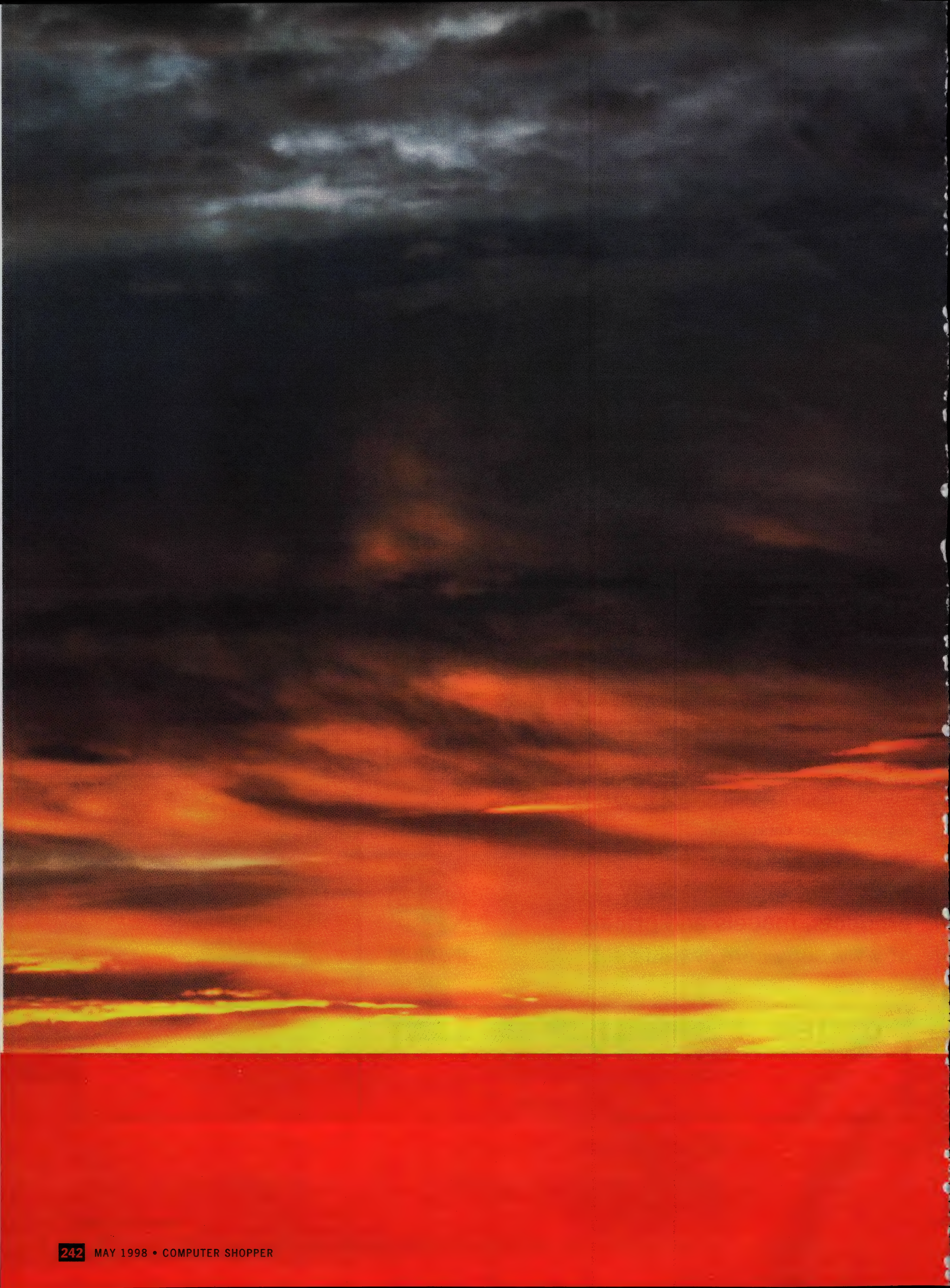

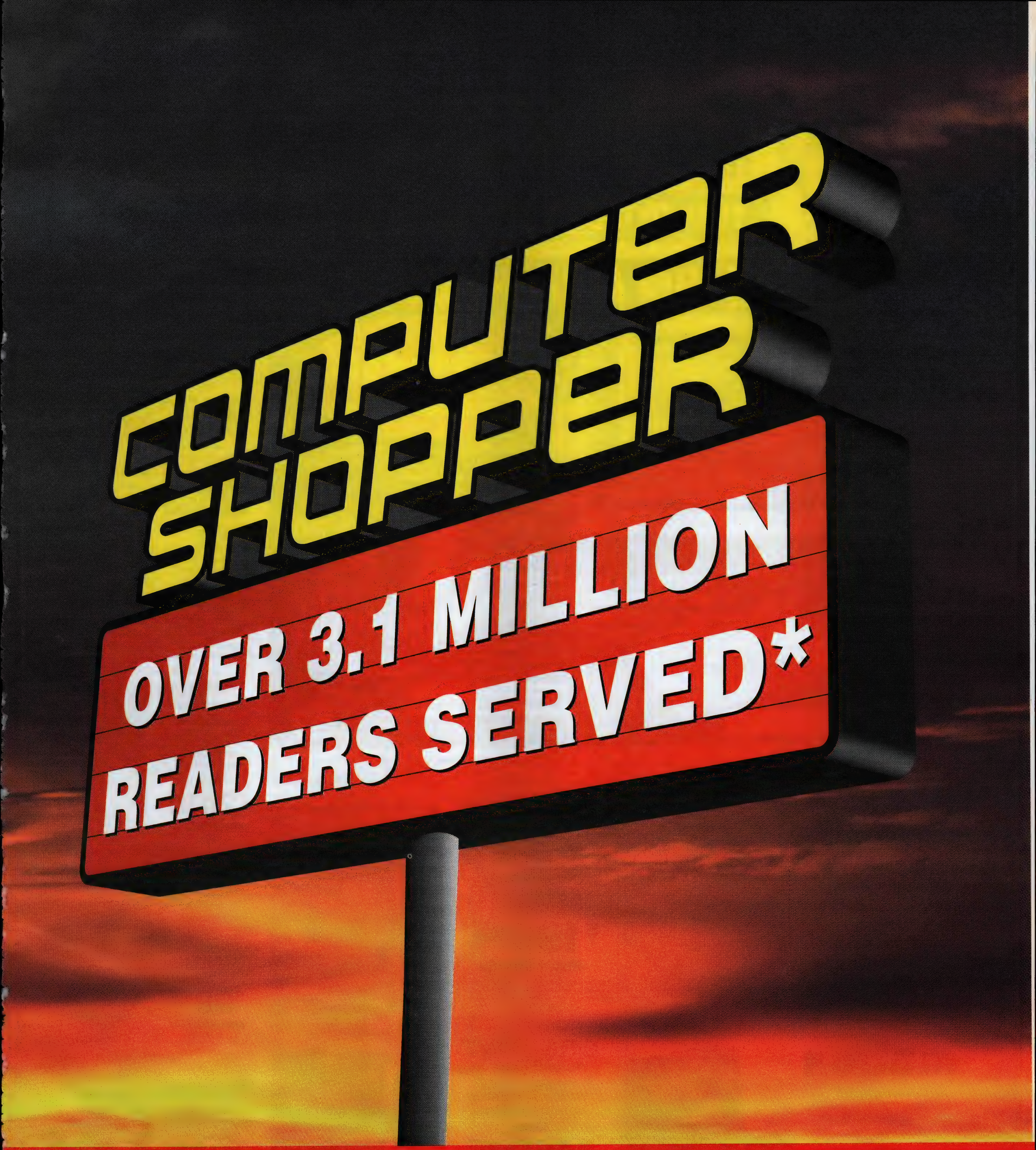
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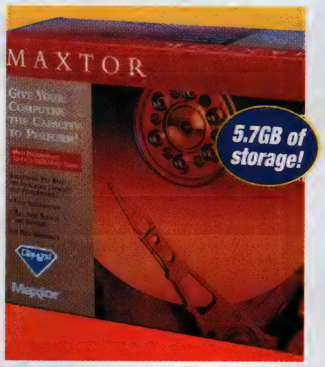

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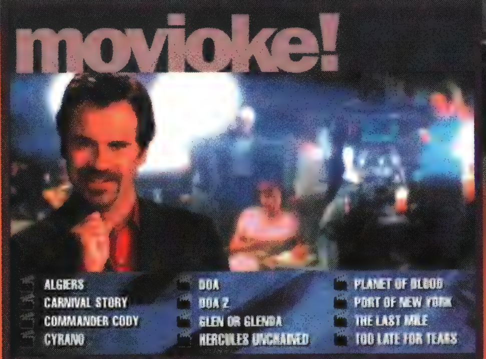
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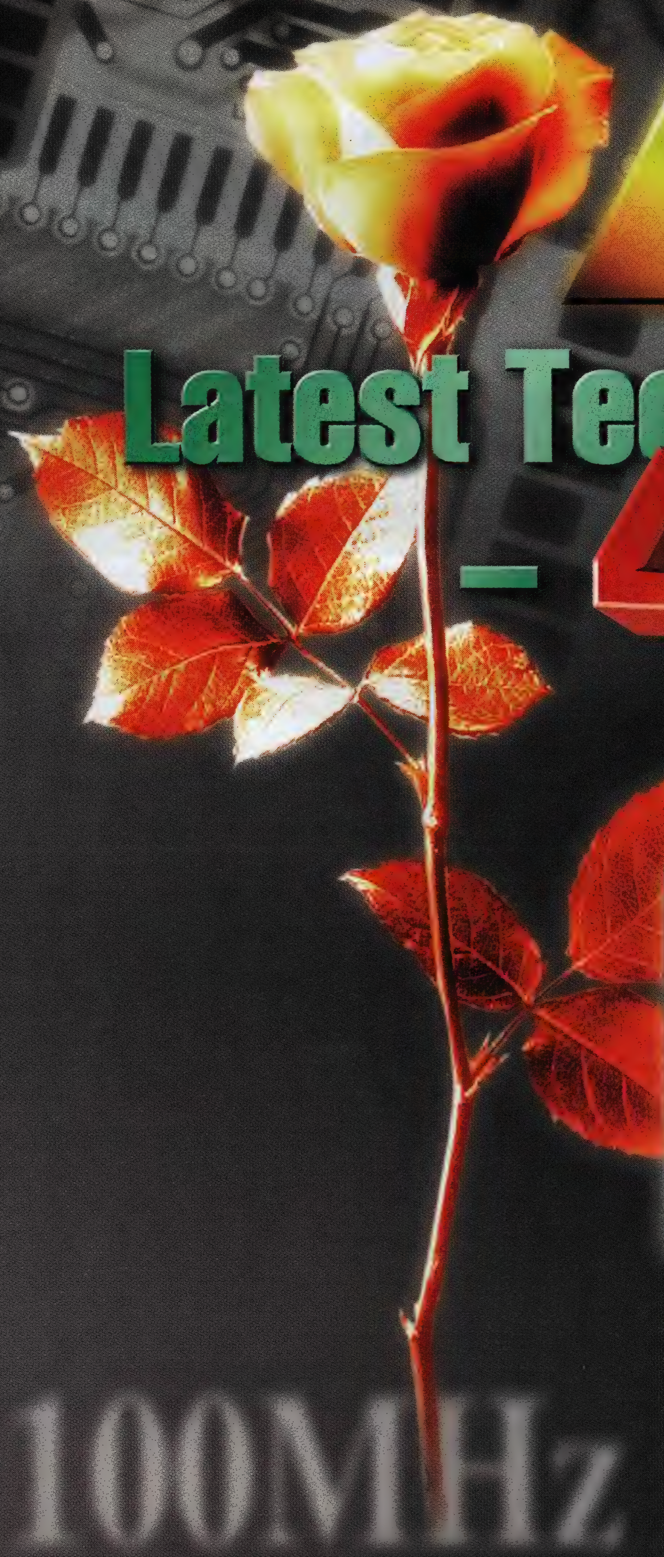

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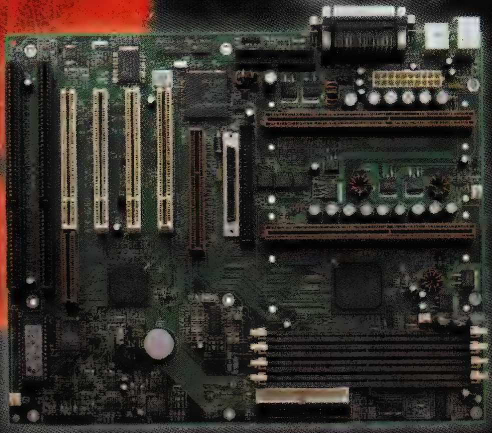
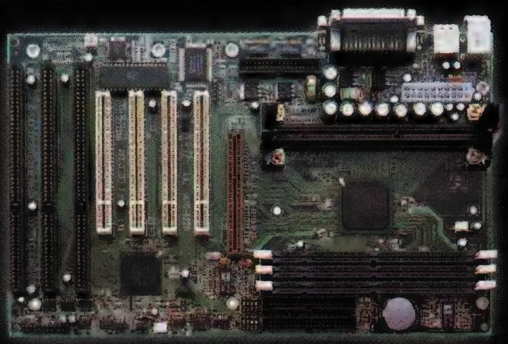


ATC-6260 440BX DP SCSI M/B
- Intel 440BX AGP (100MHz)
- Supports Dual Pentium II Processors
- 64-bit Ultra-Wide & Ultra SCSI on-board
- WOL function support
- PC health monitoring (Optional)
- CPU temperature monitoring
- Creative PC/PCI audio support



ATC-6220 440BX AGP M/B
- Intel 440BX AGP (100MHz)
- Supports Single Pentium II Processor
- WOL function support
- PC health monitoring (Optional)
- CPU temperature monitoring
- Creative PC/PCI audio support

100MHz

ATC-6120 AGP ATX M/B
- Pentium II ATX AGP M/B
- Intel 440LX chipset
- LDCM support (Optional)

ATC-6130 AGP M/B
- Pentium II AT AGP M/B
- Intel 440LX chipset
- ATX & AT power connectors

ATC-5030 430TX M/B
- Pentium MMX P55C (90-233MHz)
- AMD K6/K5; Cyrix 6x86MX/6x86L
- AT & ATX power connectors
- WOL, PC/PCI Audio
- 3/4 AT, 8.66"x9.05"

ATC-5040 430TX M/B
- Pentium MMX P55C (90-233MHz)
- AMD K6/K5; Cyrix 6x86MX/6x86L
- Auto detects CPU dual/single voltage
- 3/4 AT, 12"x8.26"

ATC-5050 430TX LDCM M/B
- Pentium MMX P55C (90-233MHz)
- AMD K6/K5; Cyrix 6x86MX/6x86L
- Auto detects CPU dual/single voltage
- 3/4 AT, 8.66"x11.02"

ATC-5230 AGP M/B
- SiS 5591/5595 AGP set
- Supports 83/75/66/60 MHz based processor
- ATX & AT power connectors

ATC-2465 Voodoo Edition
- Fastest 3D game accelerator providing "Arcade" quality into your PC
- Designed based on 3Dfx Interactive Voodoo Graphics

ATC-2475 Voodoo Rush Edition
- Real arcade quality 3D gaming based on 3Dfx Interactive Voodoo Rush Graphics
- Powerful 128 bit Alliance AT25 Graphics
- High quality NTSC/PAL TV-OUT

S3 PCI VGA Card
- 2D/3D Virge/DX-375 Graphics Engine
- High speed DRAM 2MB upgradable to 4MB

S3 AGP VGA Card
- 2D/3D Virge/GX2 Graphics Engine
- Both NTSC/PAL support
- High speed 4MB SGRAM

YAMAHA AC'97 PCI Sound Card
- AC3 Dolby Digital and Dolby Pro Logic providing 5.1 channels.

PC'97
Approval
ATC-6120
ATC-6130

BVQi

FCC

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A-Trend Booth
No. D 734

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www.a-trend.com

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FEATURED SYSTEM

Unicent's *Avanta L266* Gives You a Competitive Advantage

Time is a great leveling tool in computing. Last year's high-end business machine can easily become this year's hot ticket for the home. Take, for example, Unicent Technologies' $2,499-direct Avanta L266. The company has refitted its former Avanta 266XLP with a new graphics card, a DVD drive, and a more upscale speaker system while cutting $400 from its bottom line without losing any of its desirability.

ATI's Xpert@Play graphics card with SoftDVD MPEG-2 decoding helps the Avanta L266 make the transition from office to home.

PHOTOGRAPHY BY CHRIS GOULD

The Avanta package, which includes Microsoft Office 97 Small Business Edition, would make any SOHO operator proud. The system's 266MHz Pentium II with 64MB of SDRAM still ranks as state-of-the-art. And though its 4.3GB hard drive may be a bit shy on storage space for today's byte-bloated Windows applications, Unicent will pump that up to 6.4GB for about $70 more.

All of the Avanta's subsystems perform well, but the ATI Xpert@Play graphics board stands out from the pack. Stocked with a 3D Rage Pro accelerator with 4MB of SGRAM, this AGP board supplies the Avanta with graphics performance that is more typical of 300MHz Pentium II systems.

The Avanta loses none of its appeal upon shifting from work to play. Its multimedia features include DVD playback, provided by a Toshiba DVD-ROM drive and the Xpert@Play card, which uses Zoran's SoftDVD MPEG-2 DVD decoding software. Although DVD decoding in software uses an incredible amount of bandwidth and makes multitasking all but impossible, we were pleasantly surprised by the lack of any lag or audio/video sync problems and the excellent picture and color quality. Combine that with the KDS VS-9 17-inch monitor, and you have a recipe for a near-perfect home theater system. Even better, you can use the Xpert@Play's external video output to view DVD movies (and anything else, for that matter) on any handy large-screen TV that's comparably equipped.

The Avanta's audio capabilities come by way of an Ensoniq Concerto PCI sound card and Altec Lansing's ACS490 satellite-subwoofer speaker system. The Ensoniq's wavetable synthesis is not used for DVD video or audio CDs, but wavetable MIDI is becoming an increasingly popular feature in games. The subwoofer system, on the other hand, is practically a necessity—nearly all sounds produce bass tones, and a subwoofer provides a fuller audio presence while minimizing overall distortion.

The KDS VS-9 monitor is just as proficient at handling 2-D and 3-D graphics as it is at playing back DVD movies. Its 15.7-inch viewing area and 0.28mm dot-pitch might seem a little short of the 15.9-inch/0.26mm combination that's become de rigueur these days for a 17-inch display. But this is not really a consequential difference for a 17-inch screen size at resolutions below 1,280x1,024. The VS-9 features front-mounted controls and onscreen menus that make adjustments a snap.

The Avanta arrives in a 17x6.5x17-inch (HWD) ATX form-factor case with a surprising number of drive bays for its size. There are five externally accessible bays, two of which are occupied by the DVD-ROM and floppy drives. The hard drive is vertically mounted inside the case against the front chassis, and a vacant internal bay positioned immediately above it can easily accommodate a second drive.

An MSI-6111 motherboard with a 440LX chip set and AMI BIOS are at the heart of the Avanta. Only one of its four DIMM sockets are used for the system's 64MB of memory; maximum memory expansion can reach a total of 384MB. A 3Com/U.S. Robotics Sportster x2 modem occupies one of the board's two ISA slots; the shared slot, as with two of the three PCI slots, is vacant. Thanks to some judicious tie-wrapping of cables, the interior space is almost totally accessible. The lone exception is one of the DIMM sockets, which is slightly blocked by a data cable, a situation that can be remedied by a slight nudge.

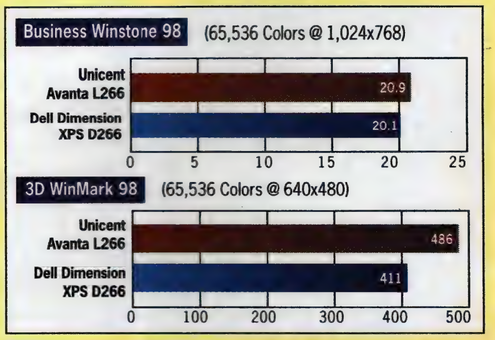
In addition to a 24-hour/seven-day support plan that's slowly

(continued on page 250)

COMPUTER SHOPPER MULTIMEDIA TEST SUITE

Unicent Avanta L266

	Unicent Avanta L266 (64MB)	*Benchmark System:* Dell Dimension XPS D266 (32MB)
PROCESSOR TYPE	266MHz Pentium II	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	670	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	135	105
16.8 Million Colors @ 800x600	124	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,160	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,270	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	1/0	0/0
CPU Utilization (%)	36/36	43/43



System as Tested: 64MB SDRAM; 512K pipeline-burst cache; Maxtor 843025D 4.3GB hard drive; Toshiba SD-M1102 DVD-ROM drive; ATI Xpert@Play graphics card with 4MB SGRAM; KDS VS-9 17-inch monitor; Ensoniq Concerto PCI sound card; Altec Lansing ACS490 satellite/subwoofer system; 3Com/U.S. Robotics Sportster x2 fax modem; 235-watt power supply; Windows 95 OEM Service Release 2; Microsoft Office 97 Small Business Edition

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

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HOMESHOPPER

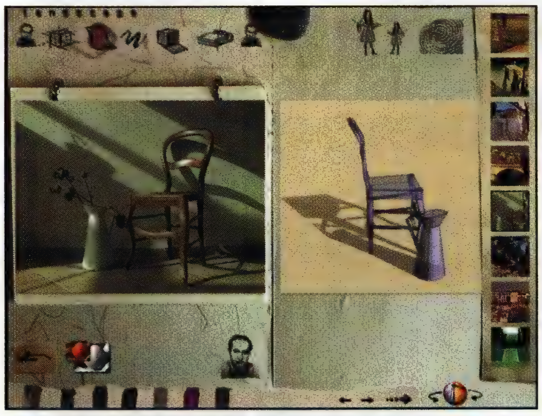
Budding Sketch Artists Find A Virtual Garret in the *Artist* CD

It wasn't so long ago that you could always find a matchbook with a "Draw This Model" come-on for some famous drawing school. These days, however, such ads have gone the way of Joe Camel, and art instruction is available on CD-ROM.

While most previous titles in this category (Diamar's How to Draw series, for example) tended to focus primarily on comic-book art, Ubi Soft's Artist explores the art of sketching. The program largely draws on traditional approaches—as well as individual workshops in Perspective and Memorized Drawing (in which an object is displayed onscreen for 30 seconds and the student is then given 3 minutes to draw it)—to cover material that would typically be offered in an adult-education art class.

Once you're familiar with the basics, you can venture into more advanced territory, exploring the topics Landscape, Life Drawing, Nude Studies, Portrait, and Still Life. In each of these areas, you can step through a series of drawing exercises, examine models, and watch how basic techniques can be used to create complex figures.

Artist
Ubi Soft Entertainment
625 Third St., 3rd Fl.
San Francisco, CA 94107
800-824-7638; 415-547-4000
Fax: 415-547-4001
www.ubisoft.com
Requires: 3.2MB hard drive space; Windows 95
List Price: $59.95



Study light and shadows by rotating 3-D models of renderings with the tool in the lower right corner.

Narrated introductions to each chapter and exercise offer useful tips that prepare you for the lesson at hand. Throughout the process, you can use the program's presentation tools to watch how each step of the drawing builds on another, and how various approaches produce equally valid artistic visions.

Each chapter includes models, overviews, and a selection of works from masters such as Van Gogh and Monet that exemplify artistic techniques. You can also zoom in on specific areas of a drawing or model, and even rotate 3-D models to study the interplay of light and shadow. The disc also offers a nice selection of video clips for instruction on shading and various drawing techniques, although the lack of accompanying sound tracks is somewhat disconcerting.

If you are a beginner, you're probably better off with a real instructor and feedback from your peers than with this electronic tutor. Still, Artist is a good reference to the basic points of sketching and drawing—although we still miss those cheesy matchbook ads.

—Peter Scisco

Play's *Snappy 3.0* Has New High-Res Mode, Lower Price

The folks at Play apparently believe that the hardware for their parallel-port video digitizer couldn't get any better—but there always seems to be some room for improvement in software. Unlike version 2.0, though, Snappy 3.0 arrives with a massive price drop—from $189 to $99.95—along with a new High Definition capture mode, color preview feature, and interface.

In addition, there are now two versions of Snappy: regular and deluxe. The deluxe version adds three nifty software titles—Adobe PhotoDeluxe 2.0, Kai's Power Goo SE, and Gryphon Morph—and the ability to grab time-lapse photographs and even small-scale AVI clips with audio (using your PC's sound card).

The hardware remains the same, but Snappy gets better each time around.

Snappy's primary purpose, though, is still to grab high-resolution still images (up to 1,500x1,125 pixels) from any NTSC-standard video source with a composite output. These include VCRs, camcorders, TV tuners, cable boxes, laserdisc players, and even console game boxes. The TWAIN-compliant device can save captured images in any of a host of popular formats, including, though not limited to, BMP, PCX, TIFF, and JPEG.

Snappy's installation is a textbook lesson in the way hardware installations should always work. We simply popped the device—which is powered by a preinstalled 9V battery—into a parallel port, plugged in the output from our VCR (using the included cable), and loaded the installation CD-ROM. We were up and running in less than 5 minutes.

As promised, version 3.0 offers the High Definition mode, which does improve some images—notably, well-lit still objects photographed using a camcorder. But it was less impressive with scenes containing lots of motion, such as a snowboarder. Even then, the High Definition processing, which occurs after Snappy grabs its sample, did improve some elements, such as making the snowboard rider's hand look more distinct against a dark background of fir trees.

Snappy 3.0
Play
2890 Kilgore Rd.
Rancho Cordova, CA 95670
800-306-7529; 916-851-0800
Fax: 916-851-0801
www.play.com
Requires: 8MB hard drive space; external video source; Windows 95 or Windows NT 4.0 or later
Mfr. Est. Price: $99.95; deluxe package, $139.95

As in earlier versions, Snappy 3.0's major annoyance is its lack of a printer pass-through. Unless you have two parallel ports on your PC—or buy an inexpensive switcher—you can't print and snap at the same time. Beyond that, though, Snappy 3.0 remains the pick of the litter for still-image capture from video. Factor in the monster price drop, and we can't imagine what could keep you from snapping one up. Incidentally, if you already own an older version of Snappy, there's no need to buy the whole kit; you can simply upgrade to version 3.0 for $24.95.

—Patrick Norton

PHOTOGRAPHY BY STEVE GREENBERG

Unicent Avanta L266

(continued from page 249)

becoming more common in the industry, Unicent provides its customers with a warranty package that goes beyond the usual coverage. The core of the basic plan is one year of parts-and-labor service, handled onsite through US Net. Unicent also provides free parts and labor for an additional two years (you will have to send the system back to the company for repair, however). Unicent claims a 24-hour turnaround for the process, not including shipping time. Alternately, you can opt to receive replacement parts and install them yourself. The parts themselves are covered for an additional two years (five years in total), this time with

Unicent Avanta L266
Unicent Technologies
290 Lena Dr.
Aurora, OH 44202
800-628-4888; 216-344-2649
Fax: 216-344-2655
www.unicent.com
Direct Price: $2,499

Game Control Goes Wireless With the *3DZoneMaster* UPD

3DZoneMaster

Techmedia Computer Systems Corp.
7301 Orangewood Ave.
Garden Grove, CA 92841
800-379-0077; 714-379-6677
Fax: 714-379-6688
www.techmedia.net
Requires: 4MB hard drive space; 9-pin serial port; Windows 3.x or Windows 95
List Price: $99

Get ready to take the next step toward true 3-D computing with Techmedia's remarkable 3DZoneMaster, a wireless ultrasonic positioning device (UPD). Although it's designed primarily to enhance your gaming experiences, the 3DZoneMaster also functions as a day-to-day remote pointing device, augmenting or replacing standard mouse input.

The 3DZoneMaster consists of a wireless control handle/transmitter and a monitor-mounted, L-shaped frame that receives x- and y-axis (i.e., vertical and horizontal) signals as well as z-axis signals, which add the element of depth. The sleek, phaser-shaped handle features two fire buttons on the underside and three on top, as well as a four-way point-of-view (POV) hat switch. The receiver plugs into any free serial port, and the handle uses a single, supplied 9V battery.

Operation of the 3DZoneMaster proved flawless in our tests. The biggest challenge is simply acclimating yourself to the spatial freedom afforded by wireless control while adhering to the unit's input range. The unit functions well up to 5 feet away from the receiver, but must always be pointed at the monitor to assure fluid, uninterrupted control. Horizontal and vertical movements are fairly easy to master, but z-axis motion definitely takes practice.

Techmedia did a fine job selecting the demonstration software bundled with the device, which includes full versions of Activision's Mechwarrior 2: Mercenaries, and (even better) Sega's Virtua Squad, a game that showcases the unit's pistol-style control. The company also provides three small programs—Draw, Rings, and Bows & Arrows—to demonstrate the unit's z-axis capabilities.

Two software control centers are placed in the Windows 95 taskbar, allowing you to configure the unit's joystick and remote-control functions. Both modules let you assign virtually any joystick, mouse, or keyboard action to each of the unit's buttons and POV hat. You can even set up and store special configurations to be used with specific games or applications. For example, the POV hat can be used to scroll windows in Microsoft Internet Explorer, or emulate x-y joystick movement in games such as Outlaws or Quake II. You can also download software configuration files from Techmedia's Web site. Unfortunately, at this time, few games or applications support z-axis movement, though this may change if products such as 3DZoneMaster become more commonplace.

—Scott A. May

3DZoneMaster
Techmedia

You can program the 3DZoneMaster's five buttons and POV switch for use as a joystick or mouse.

Movioke Casts You in the Lead For a Dozen Speaking Roles

Movioke

Bandai Digital Entertainment
5551 Katella Ave.
Cypress, CA 90630
888-992-9000; 714-816-9700
Fax: 714-816-6719
www.bdec.com
Requires: 2MB hard drive space; 4x CD-ROM drive; microphone. Windows: Pentium-class processor; Windows 3.x or Windows 95. Mac: 68040 or faster or Power Mac; 8MB RAM; System 7.x
Mfr. Est. Price: $29.95

Just when we've gotten used to the idea of karaoke, the miracle of modern PC technology has made possible an even more outrageous form of entertainment. Bandai Digital Entertainment's Movioke CD-ROM lets you reinvent classic Hollywood films and notorious cult movies by recording your own voice over those of the original actors.

Much of Movioke's charm is provided by comedian Dennis Miller, who livens up the disc in a generous selection of video clips and voice-overs. Miller acts as onscreen host and drama coach, clearly explaining how to add your voice to a Movioke sound track and encouraging you to deliver your best performance. He also keeps things moving with a nonstop stream of snappy repartee and even stars in an online help video.

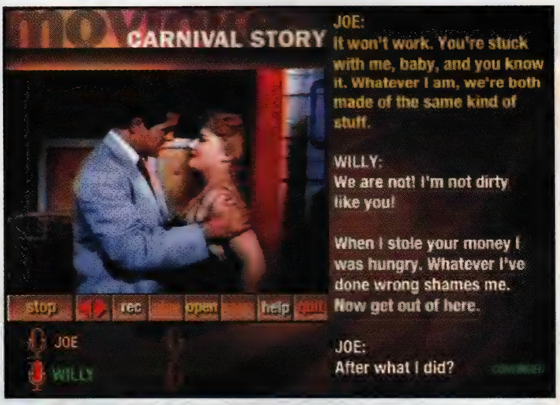
Movioke includes a dozen scenes culled from golden oldies like the '40s sci-fi serial *Radar Men From the Moon* and Steve Reeves' film *Hercules Unchained.* Other films in the eclectic collection include *Cyrano de Bergerac, Carnival Story,* and schlock director Ed Wood's infamous *Glen or Glenda.*

Movioke's easy-to-use interface makes it simple to dub a scene. A single row of buttons lets you play the original clip, jump to specific camera shots, begin recording, and save memorable takes to disk. When you're ready to begin recording, you simply choose the name of the character whose part you'll read and click the Record button. Dialog scrolls down the side of the screen as the clip plays, with the lines highlighted in yellow. When you reach each cue, the sound track goes silent, giving you the chance to read your part into the microphone. The video keeps playing as you speak, making it easier to sync your words with the actor's lips.

Movioke also lets you save your favorite takes as standard WAV files. But they can be played back with video accompaniment only when there's a copy of the disc in your PC.

Despite this limitation, Movioke has enough style and wit to entertain both kids and adults. Plus, unlike its musical namesake, a bad singing voice won't give you cause for embarrassment.

—Don Labriola



JOE:
It won't work. You're stuck with me, baby, and you know it. Whatever I am, we're both made of the same kind of stuff.

WILLY:
We are not! I'm not dirty like you!

When I stole your money I was hungry. Whatever I've done wrong shames me. Now get out of here.

JOE:
After what I did?

The program's straightforward interface makes it a breeze to synchronize your words with the actors' lips.

---

you doing your own repairs.

If the thought of placing your computer in the hands of a freight company for two years is less than thrilling, Unicent also offers two extended onsite-warranty options. One additional year of onsite coverage is only $49, and two years of additional onsite service (three years in total) can be purchased for $99.

We searched high and low for something not to like about the Unicent Avanta L266 and finally found it: The tiny power-on button, typical of this style minitower case, requires too much effort to find. Of course, when balanced against a 17-inch monitor, DVD capability, competitive performance and pricing, and a warranty that seems to go on forever, you might come up with the same solution we did: Just leave it on.

—Bill O'Brien

Scan Converters

A TICKET TO THE BIG SCREEN

Affordable and easy-to-use scan converters are your best bet for viewing PC output on a TV monitor.

BY DON LABRIOLA

Want to connect your PC to a TV? It might sound silly to choose a display that has such low resolution and refresh rates, but there are times when attaching your computer to a TV or VCR makes a lot of sense. Computer-based trainers and multimedia authors who distribute projects on videotape frequently use TV monitors and videotape recorders when editing clips or writing tapes. Meanwhile, plugging a PC into the family's large-screen TV can be a cost-effective solution for home-theater fans and PC gamers who long for a really big display.

Remote mouse in the house: ADS Technologies' TV Superscan 2 (left) and AITech's Pro PC/TV Remote.

An increasingly popular way to convert your PC's RGB video output to a TV-ready NTSC composite or S-Video signal is to use a scan converter. These devices plug into the standard VGA connector on a PC graphics card to display images on a TV and a computer monitor simultaneously. The latest generation of low-cost consumer models include such features as slide-show software, onscreen controls, and freeze-frame capability, as well as wireless mice or handheld remotes that let you tweak picture quality from across the room. These features, along with straightforward installations and the ability to be used with notebook computers, often make a scan converter a better solution than installing a graphics board equipped with a TV output jack.

In this feature, we'll look at four scan converters—all priced under $250—from ADS Technologies, AITech International, Focus Enhancements, and Umax Technologies. Given the constraints of television's NTSC video standard, none of these devices offer picture quality on a par with that of a good computer monitor. But they all produce far better output than would have been possible just a few years ago at five times the price.

MOUSE TALES

ADS Technologies' TV Superscan 2 is a flexible unit that includes a nifty wireless programmable mouse and sells for about $239.

The scan converter itself took only 5 minutes to install, thanks to the unit's clearly labeled connectors and an easy-to-follow instruction sheet. But setting up its Remote Mouse Plus, which requires loading drivers, was a bit more complex. A poorly written user's manual and the lack of an uninstall utility didn't make the job any easier, but our biggest complaint was that the Remote Mouse consumes a parallel port without providing a pass-through.

The Superscan's overall image quality was acceptable, despite having more flicker than any other unit we tested. It's the only model included here that accepts 1,024x768 input, although it can't display anything larger than an 800x600 window at one time. An onscreen menu lets you fine-tune image position, size, and brightness, and with a bit of tweaking, you can just about squeeze the entire picture on the screen with either 800x600 or 640x480 input.

We found the Remote Mouse Plus' cursor-control buttons a bit clumsy to use. But we were more impressed with its bundled utilities, which let you assign any of 21 presentation functions to each of its 18 programmable buttons. You can choose from such operations as zooming, playing media clips, opening a presentation, launching an Internet browser, or drawing on the screen with graphics and annotation tools. The software also lets you create and display pop-up toolbars and build ad hoc slide shows from stored graphics files.

The Superscan 2's unexceptional picture quality and lack of a parallel-port pass-through left us cold, although its terrific Remote Mouse software did take off a bit of the chill. The Superscan does the job, but better choices are available.

GO WITH THE PRO

AITech International bundles its Pro PC/TV Remote computer-to-television converter with a wireless mouse, a selection of gender-matching mouse and VGA adapters, batteries, cables, PC and Macintosh drivers, and Windows presentation software—all for an estimated price of $199.

The handheld remote provides 18 programmable buttons and a rubbery mini-joystick that's a lot easier to use than the Superscan's arrow keys. Response sometimes felt a bit sticky, but the joystick was usually quite responsive.

The remote's infrared receiver plugs into a mouse or serial port, but—despite claims in the documentation—our evaluation unit didn't provide pass-through capabilities for an existing mouse. This isn't too inconvenient when you're delivering a one-time presentation at a customer site, but it can pose problems if you want to permanently install the Pro PC/TV on a machine that lacks an open port.

The Pro PC/TV ships with Windows and Mac versions of Varatouch Technologies' outstanding I-Point software, which lets you choose 23 types of cursor-movement functions, record and edit macros and assign them to mouse buttons, and save complete sets of button assignments as templates. It also includes Varatouch's ProShow slide-show application, containing more than 50 tools for managing slide transitions, annotating the screen, playing sounds, and performing screen captures.

The Pro PC/TV is less impressive in other areas. It only accepts 640x480 input, lacks any onscreen menu capabilities, and always loses the picture's outer border. Its local controls are limited to a pair of touchy image-positioning buttons mounted on top of the scan converter box, and a short two-foot VGA cable makes it difficult to position the unit for easy access. Image quality, however, is fairly good, with little flicker and good color saturation.

YOU GOT THE SILVER

Focus Enhancements' $249 TView Silver is a slick, professionally designed unit. Installation was a snap, thanks to a clear, well-illustrated quick-start Guide and a custom video pass-through cable that lets you plug both a TV and a computer monitor into the graphics board's RGB connector.

Unlike the ADS and AITech units, the TView Silver incorporates the infrared receiver for its wireless remote into the converter's chassis, eliminating the need for an open parallel or serial port. The remote can't be used as a mouse and lacks programmable buttons, but it does let you position, scale, freeze, and zoom the image from across the room.

Focus obviously worked to make the TView Silver's well-written user's guide as comprehensive as possible.

SCAN CONVERTERS AT A GLANCE

	ADS TV Superscan 2	AITech Pro PC/TV Remote	Focus Enhancements TView Silver	Umax Maxmedia TV II Plus
MFR. EST. PRICE:	$239	$199	$249	$169
Highest Input Resolution*	1,024x768 (800x600 can be displayed)	640x480	800x600	800x600 (Mac 640x480)
Max. Supported Refresh Rate*	75Hz (800x600)	60Hz (640x480)	72Hz (800x600)	75Hz (640x480)
Output Formats	NTSC composite, S-Video	NTSC composite, S-Video, (PAL/SCART version also available)	NTSC composite, S-Video, PAL, SCART	NTSC composite, S-Video, PAL, SCART
Supported OS	Windows 3.x, Windows 95, Windows NT, DOS	Windows 95, Windows 3.x, DOS, Mac	Windows 3.x, Windows 95, W indows NT, DOS, Mac (Application software requires Windows OS)	No software included
Freeze-Frame Capability	Y	N	Y	Y
Onscreen Menu Functions	Position, size, brightness, graphics mode	NA	NA	Pan, position, brightness, horizontal size, freeze-frame, save/reset display settings
Remote Functions	Cursor control buttons, mouse emulation, 21 programmable presentation functions	Minitrackball, mouse emulation, macro capabilities	Freeze-frame, zoom, position, size, reset display settings	Pan, position, brightness, horizontal size, onscreen font color, sharpness, freeze-frame, save/reset display settings
Number of Programmable Buttons on Remote	18	18	NA	NA
I/O Port Required by IR Receiver	Parallel	Mouse or serial	None	None
Wireless Remote Range*	60 feet	60 feet	30 feet	50 feet
Bundled Application Software	Remote-programming app	Remote-programming app, slide-show software	Screen-annotation utility, TV fonts, video-sync utility	None
Physical Size (HWD, in inches)	1x5.5x3.75	1x5.25x4.75	1.7x8.2x3.6	1.2x4.9 x5.9
Warranty Period	1 year	1 year	3 years	1 year

* = Information supplied by vendor

In addition to the usual overview of features and specs, it explicitly describes how to connect the unit to laptops, VCRs, Macintosh computers, and older televisions and VCRs that lack standard video connectors.

In our hands-on evaluation, image quality was rock-solid, with little flicker, bright colors, and solid blacks. Focus' proprietary TrueScale image-scaling technology dynamically fit the image onto the TV screen, displaying the entire picture with either 640x480 or 800x600 input.

The TView Silver includes a modest selection of Windows software, including a font explicitly designed to be read on a TV monitor, a screen-annotation applet, and a utility that helps correct possible synchronization problems. Because it requires no driver installation, the TView provides excellent operating-system support, and can be used with Windows 95, Windows 3.x, Windows NT, DOS, or Macintosh System 7.1 or higher. It also generates video in both NTSC composite and S-VHS formats, as well as in the European PAL and SCART standards.

FOCUS
TView Silver
Maxmedia TV II Plus
UMAX

The TView Silver (left) offers rock-solid performance, while the Maxmedia TV II Plus sells for just $169.

TAKE IT TO THE MAX

With an estimated price of $169, Umax Technologies' Maxmedia TV II Plus is by far the least expensive model here. Yet, despite its low price, the Maxmedia boasts superior output quality, flexible controls, and easy setup procedures.

Like the TView Silver, the Maxmedia simplifies installation and eliminates the need for an I/O port by integrating its infrared receiver into the unit's chassis. No software is required, so the unit can be set up in a few minutes on virtually any Windows or Macintosh system.

Buttons along the top of the chassis display an onscreen menu that lets you position, pan or freeze the screen image, adjust brightness and horizontal size, and save your current settings for later recall. The handheld remote can't be used as a wireless mouse, but it does duplicate all the menu functions and adds a few of its own—including a Sharpness feature that toggles the Maxmedia's flicker-reduction circuitry. When Sharpness is turned off, the picture flickers maddeningly, but with the function enabled, overall stability and image quality approach that of the TView Silver.

The Maxmedia lets you squeeze the image horizontally to fit your screen. But you can't do the same in the vertical dimension, so using this function simply distorts the picture. During our testing, we were unable to display both the top and bottom of the image at the same time.

Although the Maxmedia TV II Plus doesn't include a wireless mouse and can't display a full screen on a television monitor, it's a well-made unit with good functionality, nice-looking output and support for a wide variety of operating systems and video formats. If you can live with its constraints, the Maxmedia provides good performance for the price.

THE VIEW FROM HERE

All four of these scan converters offer a range of features not found in the current generation of graphics cards with TV-out functions. Nevertheless, some of these devices make the PC-to-TV connection better than others.

Although it lacks programmable mouse capabilities, the TView Silver produced the best-looking video quality in this roundup, and gets our vote for offering the best performance in this price range. (It was also the only unit to offer a three-year warranty; the others are covered by one-year warranties.)

For the budget-conscious buyer, the Maxmedia TV II Plus is a solid choice. Although we were not able to display a full-screen image on our TV, the unit is able to handle 800x600 input. The Pro PC/TV also sells at a reasonable price, produces a stable image, and offers the most flexible and easiest-to-use remote of the four units we looked at. It can be an acceptable choice, but only if you're willing to live with its 640x480 limitation, inability to display a full image, and I/O port requirements.

Lastly, as fond as we were of the TV Superscan 2's programmable remote mouse, the unit's mediocre picture quality makes us hesitant to give it an unqualified recommendation. ▼

PRODUCT LISTING

ADS TV Superscan 2

ADS Technologies
13909 Bettencourt St.
Cerritos, CA 90703
800-888-5244; 562-926-1928
Fax: 562-926-0518
www.adstech.com
Mfr. Est. Price: $239

AITech Pro PC/TV Remote

AITech International
47971 Fremont Blvd.
Fremont, CA 94538
800-882-8184; 510-226-8960
Fax: 510-226-8996
www.aitech.com
Mfr. Est. Price: $199

Focus Enhancements TView Silver

Focus Enhancements
142 North Rd.
Sudbury, MA 01776
800-538-8866; 978-371-2000
Fax: 978-371-8470
www.focusinfo.com
Mfr. Est. Price: $249

Umax Maxmedia TV II Plus

Umax Technologies
3561 Gateway Blvd.
Fremont, CA 94538
800-468-8629; 510-651-4000
Fax: 510-651-8834
www.umax.com
Mfr. Est. Price: $169

SECTION CONTINUES ON PAGE 260

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	Satellite Pro 440CDT	P133MHz MMX	1.34GB	16/144MB	10X	33.6K d/f/v	12.1" SVGA TFT	#44990	$1939	$78	$189.98
PRICE DROP!	Satellite Pro 460CDX	P166MHz MMX	2.1GB	32/160MB	10X	Opt.	12.1" SVGA TFT	#56400	$1749	$70	$189.98
	Satellite Pro 460CDT	P166MHz MMX	2.0GB	32/160MB	10X	33.6K d/f/v	12.1" SVGA TFT	#44992	$2799	$112	$219.98
NEW!	Satellite Pro 470CDT	P200MHz MMX	2.1GB	32/160MB	10X	33.6K d/f/v	12.1" SVGA TFT	#56480	$2899	$116	$219.98
	Satellite Pro 480CDT	P233MHz MMX	3.8GB	32/160MB	10X	33.6K d/f/v	12.1" SVGA TFT	#56401	$3399	$136	$279.98
	Libretto 70CT	Pentium 120MHz	1.5GB	16/32MB	—	Opt.	6.1" SVGA TFT	#45979	$1949	$78	$189.98
PRICE DROP!	Portégé 300CT	P133MHz MMX	1.6GB	32/64MB	—	33.6K d/f/v	10.4" SVGA TFT	#44996	$1499	$60	$189.98
	Tecra 520CDT	P166MHz MMX	2.0GB	32/160MB	10X	33.6K d/f/v	12.1" SVGA TFT	#44993	$2949	$118	$219.98
	Tecra 520CDT	P166MHz MMX	4.0GB	32/160MB	10X	33.6K d/f/v	12.1" SVGA TFT	#56403	$3139	$126	$279.98
	Tecra 530CDT	P166MHz MMX	2.0GB	32/160MB	10X	33.6K d/f/v	12.1" XGA TFT	#44994	$3099	$124	$279.98
	Tecra 530CDT	P166MHz MMX	4.0GB	32/160MB	10X	33.6K d/f/v	12.1" XGA TFT	#56405	$3349	$134	$279.98
NEW!	Tecra 550CDT	P266MHz MMX	4.0GB	32/160MB	20X	56K flex	12.1" XGA TFT	#56435	$3899	$156	$279.98
	Tecra 750CDM***	P233MHz MMX	4.77GB	32/160MB	20X§	56K flex	13.3" XGA TFT	#56404	$4849	$194	$329.98
	Tecra 750DVD†	P233MHz MMX	4.77GB	32/160MB	DVD	56K flex	13.3" XGA TFT	#56406	$5249	$210	$429.98

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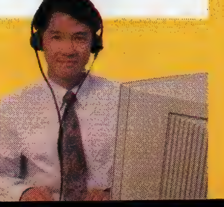

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380ED	P166MHz MMX	2.1GB	16/80MB	12.1" SVGA FRSTN†	8-20X	Opt.	#45962	$1799	$74	$219.98
380ED	P166MHz MMX	3.0GB	16/80MB	12.1" SVGA TFT	8-20X	Opt.	#45963	$2699	$108	$219.98
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NEW! 380XD	P233MHz MMX	4.0GB	32/96MB	12.1" SVGA TFT	10-24X	Opt.	#56484	$3199	$128	$279.98
NEW! 380XD	P266MHz MMX	5.1GB	32/96MB	12.1" SVGA TFT	10-24X	Opt.	#56485	$3699	$148	$279.98
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560E	P166MHz MMX	2.1GB	16/80MB	12.1" SVGA TFT	-	Opt.	#44960	$2899	$116	$219.98
NEW! 560X	P200MHz MMX	2.1GB	32/96MB	12.1" SVGA HPA††	-	Opt.	#56482	$2399	$96	$219.98
560X	P233MHz MMX	4.0GB	32/96MB	12.1" SVGA TFT	-	Opt.	#52990	$3499	$140	$279.98
770	P200MHz MMX	3.2GB	32/160MB	13.3" XGA TFT	Opt.§	Opt.	#45967	$3699	$148	$279.98
770	P233MHz MMX	4.0GB	32/160MB	13.3" XGA TFT	Opt.§	Opt.	#45965	$4299	$172	$329.98
770	P233MHz MMX	5.1GB	32/160MB	14.1" XGA TFT	Opt.§	33.6 d/f/v§§	#45968	$4999	$200	$329.98

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8032	166MHz MMX	16/128MB	2.1GB	-	16X	#49365	$1099	-	$149.98
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4000	P233MHz MMX	32/384MB	3.2GB	5/1	16X	#49317	$1529	$62	$189.98
4000	P2-300MHz	32/384MB	3.2GB	4/4	24X	#53032	$2149	$86	$219.98
4000	P2-333MHz	32/384MB	3.2GB	4/4	24X	#53113	$2499	$100	$219.98

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300PL	P166MHz MMX	32/384MB	2.5GB	4/4	–	#48862	$1149	–	$149.98
300PL	P166MHz MMX	32/384MB	2.5GB	6/6	–	#48868	$1199	–	$149.98
300PL	P200MHz MMX	32/384MB	2.5GB	4/4	–	#48863	$1229	$50	$189.98
300PL	P200MHz MMX	32/384MB	4.2GB	4/4	–	#48864	$1299	$52	$189.98
300PL	P200MHz MMX	32/384MB	4.2GB	4/4	24X	#48865	$1399	$56	$189.98
300PL	P200MHz MMX	32/384MB	4.2GB	6/6	24X	#48869	$1449	$58	$189.98
300PL	P233MHz MMX	32/384MB	4.2GB	4/4	–	#48867	$1399	$56	$189.98
300PL	P233MHz MMX	32/384MB	4.2GB	4/4	24X	#48866	$1549	$62	$189.98
300PL	P233MHz MMX	32/384MB	4.3GB†	6/6	24X	#48870	$1899	$76	$189.98

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300MT	P2-300MHz	64MB/4MB	4.0GB	56K X2	24X	–	#53070	$2199	$88	$189.98
333MT	P2-333MHz	64MB/4MB	4.3GB	56K X2	24X	–	#53112	$2399	$96	$189.98

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41255	Sportster 56K Internal Faxmodem	$139.98
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57376	US Robotics 56K V.90 Winmodem	$98.98
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18340	EtherLink III 16-bit ISA 10Base-T 5-Pack	$434.98
13784	EtherLink III 16-bit ISA 3C509B-TP	$99.98
13785	EtherLink III 16-bit ISA Combo	$118.98
41353	Etherlink XL PCI 3C900-Combo	$128.98
32044	Office Connect Hub 8/TPC	$112.98
32043	Office Connect Hub 8/TPM	$375.98
32045	Office Connect Hub 8/TPO	$78.98

Intel

48794	EtherExpress Pro/100 Plus 20 Pack	$1349.00
48792	EtherExpress Pro/100 Plus Single	$79.98
34228	EtherExpressPro/10+ & ISA RJ-45/BNC	$69.98

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53251	HP ScanJet 5100 Cse Scanner	$299.98
45923	HP ScanJet 6100 Cse Scanner	$799.98

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55651	ScanAce 1230s 30-bit Scanner	$189.98

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40938	SnapScan 600 Artline Scanner	$459.98

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36165	ScanMaker E3 Standard	$139.98
36166	ScanMaker E6 Standard	$299.98
78294	ScanMaker III w/TMA	$1395.00

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45682	ASTRA 1200S with Photo Deluxe/PageManager	$249.98
53948	ASTRA 610S	$149.98
52815	ASTRA 610P	$129.98

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45653	PaperPort Strobe for Windows	$229.98
56928	PaperPort 3100 30-bit Flatbed Scanner	$149.98
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Connectix

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43774	Color QuickCam 2 for Windows	$159.98*

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58427	DC200 Digital Camera	$599.98

Nikon

40931	CoolPix 300 Digital Camera	$699.98

Olympus

53636	D-500L Digital Zoom Camera	$799.98
50570	D-320L Digital Zoom Camera	$599.98

Sony

47467	Digital Mavica Camera w/ 10X Zoom	$669.98

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38734	3D Pro Turbo PC2TV 4MB PCI	$159.98
38730	3D XpressionPlus 2MB PCI	$69.98
38731	3D XpressionPlus 4MB PCI	$89.98
46869	ATI All-In-Wonder TV Tuner 4MB	$209.98

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47480	Millenium II 4MB	$179.98

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HP DeskJet 692c	600x600	5/1.7	8.5x14"	1	#57721	**$198.98**
HP LaserJet 6lxi	1200x1200	6/NA	8.5x14"	1	#57718	**$349.98**

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Canon BJC-80 Portable	720x360	4/2	7/20	35K	8.5x14"	1	#49411	**$299.98**
Epson Stylus Color 400	720x720	4/3	1	56K	8.5x14"	2	#80666	**$179.98**
Epson Stylus Color 600	1440x720	6/4	5/4	512K	8.5x14"	2	#80667	**$249.98**
Epson Stylus Color 800	1400x720	8/7	1	64K	8.5x14"	2	#80668	**$349.98**
Epson Stylus Color 1520	720x720	3/1	5/4	256K	13.6x21.78"	2	#40920	**$799.98**
HP DeskJet 340 cBi Portable	300x300	3/2-4	6/0	16K	8.5x14"	1	#57726	**$299.98**
HP DeskJet 672C	600x300	5/1.5	0/32	512K	8.5"x banner	1	#40979	**$199.98**
HP DeskJet 694C	600x600	5/1.7	8/35	512K	8.5"x banner	1	#40994	**$239.98**
HP DeskJet 890Cse	600x600	9/4	26/126	1MB	8.5x14"	1	#45960	**$399.98**
HP DeskJet 1600C	600x600	9/4	1/35	4/100MB	8.5x14"	1	#31068	**$1349.00**
HP OfficeJet 1150Cse	600x300	8/4	125	512K	8.5x14"	1	#48605	**$799.98**

Laser	Max. Std. Resolution	Page per Min. B&W/Color	PS Fonts/ TT Fonts	RAM Std./Max.	Max. Paper Size	Warranty (Years)	Item #	ONLY
HP LaserJet 6Lse	600x600	6	0/26	1/9MB	8.5x14"	1	#41022	**$399.98**
HP LaserJet 6MP	600x600	8	35/75	2/50MB	8.5x14"	1	#82666	**$898.98**
HP LaserJet 4000se	1200x1200	17	Y/110	4/100MB	8.5x14"	1	#48611	**$1149.00**
Lexmark Optra S 2420	600x600	2/1	75/75	4/132MB	8.5x14"	1	#56932	**$1869.00**
Lexmark Optra SC 1275	600x600	12/3	75/45	16/192MB	8.5x14"	1	#49514	**$3799.00**
Minolta Pageworks 12	600x600	6	0/96	256K/4.25MB	8.5x14"	1	#45719	**$899.98**
Minolta Pageworks 20	600x600	20	0/106	4/68MB	8.5x14"	1	#45720	**$1049.00**
Minolta Pageworks Color	600x600	12/3	0/10	4/68MB	8.5x14"	1	#45721	**$2999.00**
Tektronix Phaser 360 Color	800x450	6/6	164/69	8/24MB	8.5x11"	1	#49469	**$3695.00**
Tektronix Phaser 560 Color	600x600	14/5	17	20/72MCT	8.5x11"	1	#49477	**$3999.00**
GCC Elite 1212	1200x1200	12	35/15	8/64MB	8.5x14"	1	#40936	**$1399.00**
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Portégé 650CT	32MB	#38388	**$148.98**
Tecra 500CS, 500CDT	8MB	#38386	**$48.98**
Tecra 500CS, 500CDT	16MB	#38387	**$70.98**
Tecra 500CS, 500CDT	32MB	#38389	**$150.98**
Tecra 710/720CDT	8MB	#28250	**$76.98**
Tecra 710/720CDT	16MB	#28251	**$99.98**
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Acer TEXAS INSTRUMENTS	FOR MEMORY UPGRADE OF	Item #	ONLY
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Extensa 550/555 Series	16MB	#28403	**$90.98**
Extensa 550/555 Series	32MB	#28404	**$142.98**
Extensa 900, 900T, 900CDT	8MB	#41104	**$43.98**
Extensa 900, 900T, 900CDT	16MB	#41105	**$108.98**
Extensa 900, 900T, 900CDT	32MB	#41106	**$142.98**
Extensa 650CD, 650CDT	8MB	#41104	**$43.98**
Extensa 650CD, 650CDT	16MB	#41105	**$108.98**
Extensa 650CD, 650CDT	32MB	#41106	**$142.98**
TravelMate 6000, 6020, 6030, 6050	8MB	#41117	**$43.98**
TravelMate 6000, 6020, 6030, 6050	16MB	#41108	**$108.98**
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ThinkPad 760E, EL, ED, ELD	16MB	#34640	**$70.98**
ThinkPad 365x, xd, & ThinkPad 560	16MB	#34640	**$70.98**
ThinkPad 365x, xd, & ThinkPad 560	32MB	#37662	**$158.98**

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Advantage 9000 Series	32MB	2	16MB	#28439	**$53.98**
Advantage 9000 Series	64MB	2	32MB	#37697	**$106.98**
Bravo MS P60, P90 Series	16MB	2	8MB	#26750	**$31.98**
Bravo MS P60, P90 Series	32MB	2	16MB	#26598	**$53.98**
Bravo MS P60, P90 Series	64MB	2	32MB	#26756	**$106.98**

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Optiplex GX PRO	64MB	1	64MB	#44482	**$492.98**
Dimension XXPS P60, P75, P100	32MB	2	16MB	#28439	**$53.98**
Dimension XXPS P60, P75, P100	64MB	2	32MB	#37697	**$106.98**

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Presario 4000 Series	32MB	2	16MB	#28439	**$53.98**
Presario 4000 Series	64MB	2	32MB	#37697	**$106.98**
Deskpro 2000/4000	16MB	2	8MB	#28438	**$28.98**
Deskpro 2000/4000	32MB	2	16MB	#28439	**$53.98**

IBM	FOR MEMORY UPGRADE OF	YOU NEED	MB	Item #	ONLY
Aptiva S & C Series	32MB	2	16MB	#28439	**$53.98**
Aptiva S & C Series	64MB	2	32MB	#37697	**$106.98**
PC 300 Model 330	16MB	2	8MB	#28315	**$29.98**
PC 300 Model 330	32MB	2	16MB	#28316	**$53.98**
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25659	Jaz 1GB External Drive	$399.95
25658	Jaz 1GB SCSI Insider Drive	$299.95
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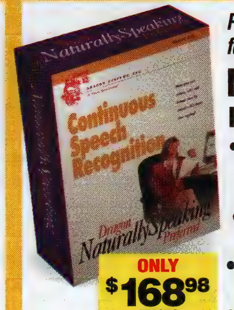

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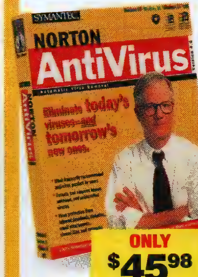

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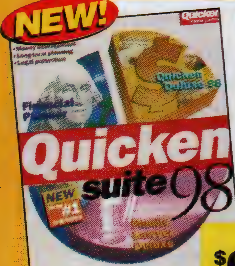

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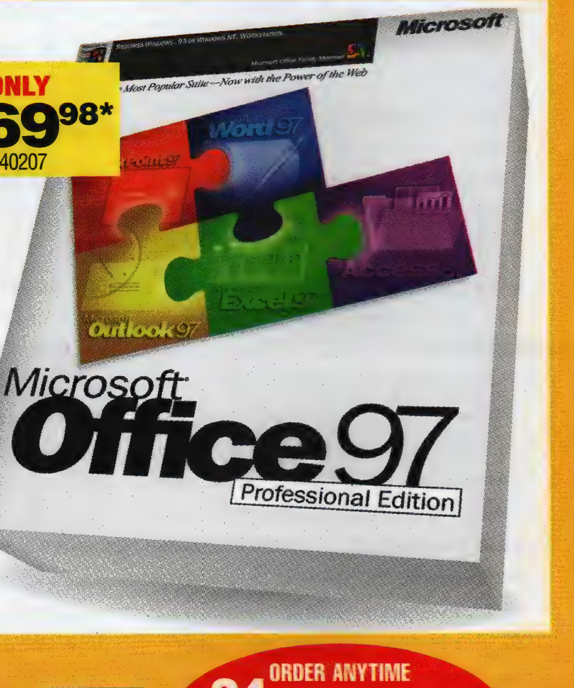

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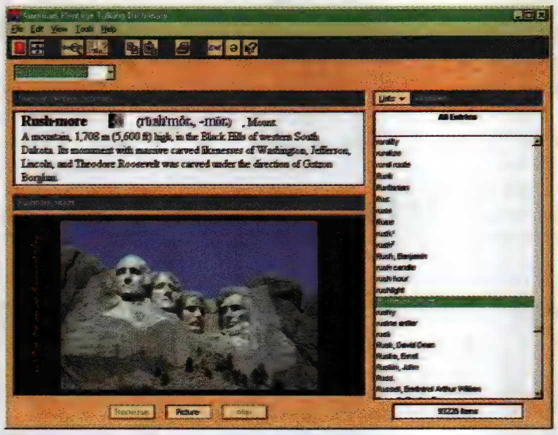
If you've ever been hesitant to use a word because you weren't quite sure how to pronounce it, the American Heritage Talking Dictionary 5.0 can help. Not only does the program define more than 90,000 words, but it can give you the proper spoken pronunciation for almost all of them, thereby helping to raise the erudition level of your discourse. Even if you're confident of your word skills, you'll find that the Talking Dictionary offers a number of valuable features that you can't get from an ordinary print dictionary.

Using a print dictionary to check the spelling of a word is something of a paradox, since you need to know the proper spelling in order to look it up. But the Talking Dictionary can offer suggestions if the word you enter isn't spelled correctly. Enter the word "goverment," and up pops a list of alternate suggestions, one of which is "government." Sometimes, however, these lists are unnecessarily large. For example, if you enter "seperate," one of the most common spelling errors, you'll get a list of 27 words that includes "gatekeeper," "perborate," and "cooperate."


American Heritage Talking Dictionary
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Lists
All Entries
Picture
93226 items

Rush·more (rŭsh′môr, -mōr), Mount.
A mountain, 1,708 m (5,600 ft) high, in the Black Hills of western South Dakota. Its monument with massive carved likenesses of Washington, Jefferson, Lincoln, and Theodore Roosevelt was carved under the direction of Gutzon Borglum.

The American Heritage Talking Dictionary provides more than 3,000 images along with its 90,000-plus entries.

Even if you can't quite think of the word, you can still use the program to look it up. Enter a word fragment like "ious," and the Partial Word Search function provides a list of words containing those letters. You can also search the definitions for particular word combinations. In addition, the program includes a complete thesaurus so that you can get word ideas by looking at lists of synonyms and antonyms.

The Talking Dictionary has an uncluttered interface and two viewing modes, which makes it easy to use. In Mini View mode, you get a small window containing the word and its definition that stays on top of your other applications. In Full View mode, you get the definition, thesaurus entry, map or picture, and word list. Double-clicking on any word in a definition or thesaurus list automatically looks it up in the dictionary, and a history list lets you get back to your original word.

Although the package touts "instant access from Microsoft Word," it's really nothing more than a button on the Word toolbar that starts the dictionary program. Moreover, the pronunciations, while generally good, aren't always perfect. The dictionary pronounces the word "Weltanschauung," for example, as if it were four separate words. We also found the occasional typo (as in the entry for Elvis Presley) and misidentified image (e.g., a redwing, a type of thrush, is incorrectly labeled a red-winged blackbird). And of the several voices used, some are easier to understand than others.

Still, these problems are minor considerations compared with the dictionary's comprehensive word list, thesaurus, and many maps and photos. Overall, the American Heritage Talking Dictionary makes a very strong case for why you should choose a CD-ROM dictionary over a print volume.

—Sheldon Leemon

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In these days of 300MHz processors, the slowest component in your computer system is likely to be your CD-ROM drive. If you're interested in maximizing your CD-ROM performance, and don't mind paying extra for it, Plextor Corp's. new UltraPleX PX-32TSi CD-ROM drive is a worthy contender.

The model we reviewed was an internal drive with a tray-load mechanism; Plextor also offers a caddy-load version (model PX-32CSi), which has an estimated price of $249. Unlike the majority of new CD-ROM drives, which use hybrid technology to fluctuate disc speeds, the UltraPleX is a constant angular velocity (CAV) drive that maintains a constant rotation speed capable of reading the inner tracks of a disc at 14x and the outer tracks at 32x. That performance was similarly reflected in the UltraPleX's blazing score of 1,700 on our CD-ROM WinMark test. We also found that throughput met or exceeded the claimed rates.

The UltraPleX's speed is due in part to its use of the Ultra SCSI interface, which supports fast burst transfers at up to 20MB/sec. This interface also uses only about 5 percent of the CPU cycles, which means that the UltraPleX won't bog down your processor, even when it's transferring data at full speed. The downside is that in order to reap these benefits, you'll need to install an Ultra SCSI controller card in your computer.

Our system was already equipped with a SCSI card, so we simply connected the drive and Windows 95 recognized it on start-up. We noticed the increase in speed right away and found it a real pleasure to run software from a CD almost as quickly as from a hard drive.

The UltraPleX has all of the extras one would expect from a high-end drive. The drive conforms to the Multiread specification, which means it can read CD-Recordable and CD-Rewritable software in addition to commercially pressed CDs. Like all Plextor drives, the UltraPleX is able to directly access the digital information on an audio CD, a capability known as Direct Audio Extraction. This feature is vital if you plan to use the CD-ROM as a source drive for copying audio or mixed data/audio CDs to a CD-R drive. Even if you don't plan on burning a CD, the included Plextor Manager software lets you convert any audio track from a CD to a WAV file.

Plextor's UltraPleX is a true CAV drive that achieves a top read speed of 32x on the outer tracks of CD-ROMs.

The UltraPleX is a great choice if you have a high-end system that already uses Ultra SCSI hard drives, or if you plan to use the drive as a source for copying data to a CD-R or CD-RW disc. For the average user, however, a 32x IDE CD-ROM drive will provide about 80 percent of the performance of the UltraPleX at about half the price. Moreover, with DVD-ROM drives already starting to hit the mainstream, trying to squeeze that last 20 percent of performance out of your CD-ROM drive may not be worth the added expense.

—S.L.

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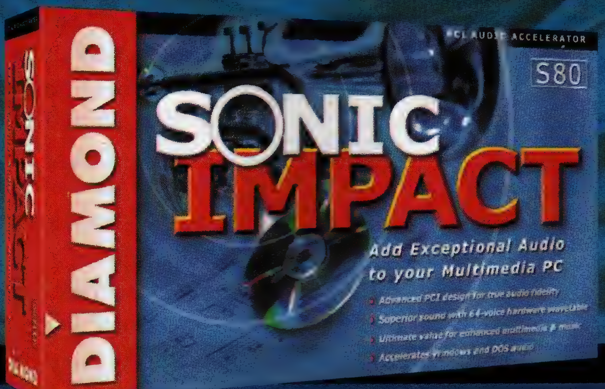
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Number Of DirectSound 3D Streams Supported In Hardware**	6 STREAMS	2 STREAMS	2 STREAMS
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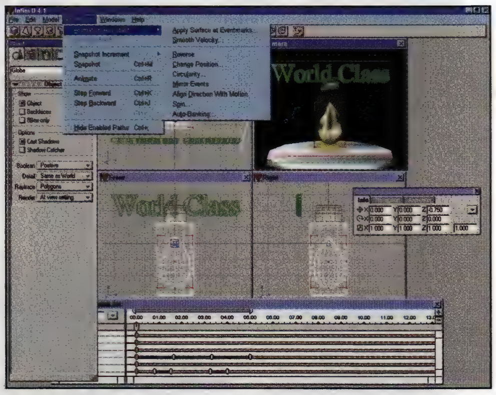
Infini-D Sets a Complex Stage For Advanced 3-D Animation

Several years ago, we reviewed Specular Infini 3 for the Mac and were impressed by its 3-D modeling capabilities. The latest version, Infini-D 4.1 for Windows, boasts numerous additions, including a Mesh editor with integrated deformers; enhanced lighting, rendering, and animation functions; upgraded support for broadcast and video; and real-time particle systems for creating special effects such as fireworks.

If you're used to the cozy, configurable interfaces supplied with most current Windows applications, however, you're in for a rude shock with Infini-D. Part of the problem is the weak implementation of the Windows standard: Some tool buttons offer descriptors, others do not. Also, the Undo function works on some actions and not on others. There's no right button support, onscreen hints, tips, or tutorials to help you get started. Windows-standard help is also lacking.

On the other hand, if you take the time to learn the program, you'll find a flexible 3-D modeler with a broad range of strengths. To build a scene, you add objects such as geometrical primitives, terrains, and particles; edit them in their respective subwindows; add shading and lights, animation, and special effects; and then render the scene to a file. Infini-D's assortment of predefined solid shapes include offbeat models such as prism, banana, and twisted spline. It's easy enough to move objects in the world space by entering values numerically, nudging them with the cursor keys, or by using one of the move tools.


Infini-D 4.1
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Help
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Snapshot
Animate
Step Forward
Step Backward
Hide Enabled Paths
Apply Surface at Eventmarks...
Smooth Velocity...
Reverse
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Inifini-D has a simple animation panel that lets you automatically add special behaviors such as spin.

Most of the animation work is done within the simple, well-designed Sequencer window, which uses Eventmarks and a slider time line to set the object attributes over time. An Eventmark contains all the information about an object, such as shape, surface, and position. Special effects—spin, reverse, auto-bank, and so on—are easily added via the plug-in Animation Assistants.

Rendering quality is very good, and you can Phong shade or ray-trace part of your scene to view the result on the fly. Final rendering options are also extensive—you can specify the degree of antialiasing, path detail, transparency, and reflections; and select special effects such as lens flare and shadow. If you're producing a scene for a broadcast medium, you can specify that the output include only colors that fit within the required spectrum.

Infini-D 4.1 for Windows

MetaCreations Corp.
6303 Carpinteria Ave.
Carpinteria, CA 93013
800-846-0111; 805-566-6200
Fax: 805-566-6385
www.metacreations.com
Requires: Pentium processor; 24MB RAM (32MB recommended); 20MB hard drive space; Windows 95 or Windows NT 4.0
List Price: $899

The program's main competitors—Caligari trueSpace 3.1 ($795) and 3D Eye TriSpectives Professional 2 ($499.95)—are both relatively easy to master, with rendering engines superior to Infini-D's. In addition, at $899, Infini-D 4.1 for Windows is not only more expensive than either of these programs, but its learning curve can be a real barrier to all but loyal users.

—Susan Glinert

Gear Audio Offers a Simple Way to Mix Your Own CDs

Looking to create custom CDs of your favorite tracks from CDs, LPs, and cassettes? Elektroson's new Gear Audio 1.0 aims to please. Much like Adaptec's Easy CD Creator, it combines basic Red Book (i.e., CD Audio) recording capabilities with built-in de-click and de-scratch filters from Algorithmix for cleaning up your favorite old audio tracks.

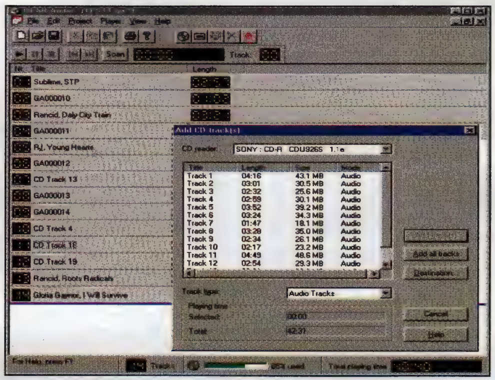
Gear Audio 1.0

Elektroson
2105 S. Bascom Ave.,
Ste. 160
Campbell, CA 95008
800-606-6116; 408-371-4800
Fax: 408-371-4895
www.elektroson.com
Requires: 16MB RAM (32MB recommended); 800MB hard drive space; CD-R drive; Windows 95- or Windows NT-supported SCSI card; hard drive with 12ms or faster access time; Windows 95 or Windows NT 4.0
List Price: $99

We had no difficulty installing Gear in a Cyrix PR166-based test system running Windows 95 and equipped with a Sony CD-R drive and a 4GB SCSI hard drive. Once the application was loaded, we immediately began creating our first Project, a set group of audio tracks to burn onto a CD-R disc. You add tracks to the Project window by dragging and dropping them (in the case of WAV files) or by opening up the Add CD Track window under the Project toolbar header, which enables you to import CD audio tracks. You'll have to use your CD-R drive to import those audio tracks because Gear doesn't let you choose between your CD-ROM and CD-R drive for that function. In our case, that meant we were prevented from using our faster SCSI CD-ROM drive to import tracks.

Although you can title the tracks once they're imported into the Project window—which sounds great if you plan to keep a number of files in storage—you end up changing only the name of the track on your project list; it won't alter the title of the WAV file stored in the Project file on your hard drive. This also applies to WAV files that you drag and drop into the Project's playlist window: They lose their filenames in exchange for the filenames that Gear assigns them.

To use Gear's built in de-click and de-scratch features, you'll need to import a WAV file into a Project.


File
Edit
Project
Player
View
Help
Scan
Track:
Title
Length
Subline, STP
GA000010
Rancid, Daly City Train
GA000011
RJ, Young Hearts
GA000012
CD Track 13
GA000013
GA000014
CD Track 4
CD Track 18
CD Track 19
Rancid, Roots Radicals
Gloria Gaynor, I Will Survive
Add CD track(s)
Add all tracks
Destination...
Cancel
Help
For Help, press F1

CD reader: SONY : CD-R CDU926S 1.1e

Track 1	04:16	43.1 MB	Audio
Track 2	03:01	30.5 MB	Audio
Track 3	02:32	25.6 MB	Audio
Track 4	02:59	30.1 MB	Audio
Track 5	03:52	39.2 MB	Audio
Track 6	03:24	34.3 MB	Audio
Track 7	01:47	18.1 MB	Audio
Track 8	03:28	35.0 MB	Audio
Track 9	02:34	26.1 MB	Audio
Track 10	02:17	23.2 MB	Audio
Track 11	04:49	48.6 MB	Audio
Track 12	02:54	29.3 MB	Audio

Track type: Audio Tracks

The Add CD Track window lets you pull songs, one at a time or in groups, straight from audio CDs.

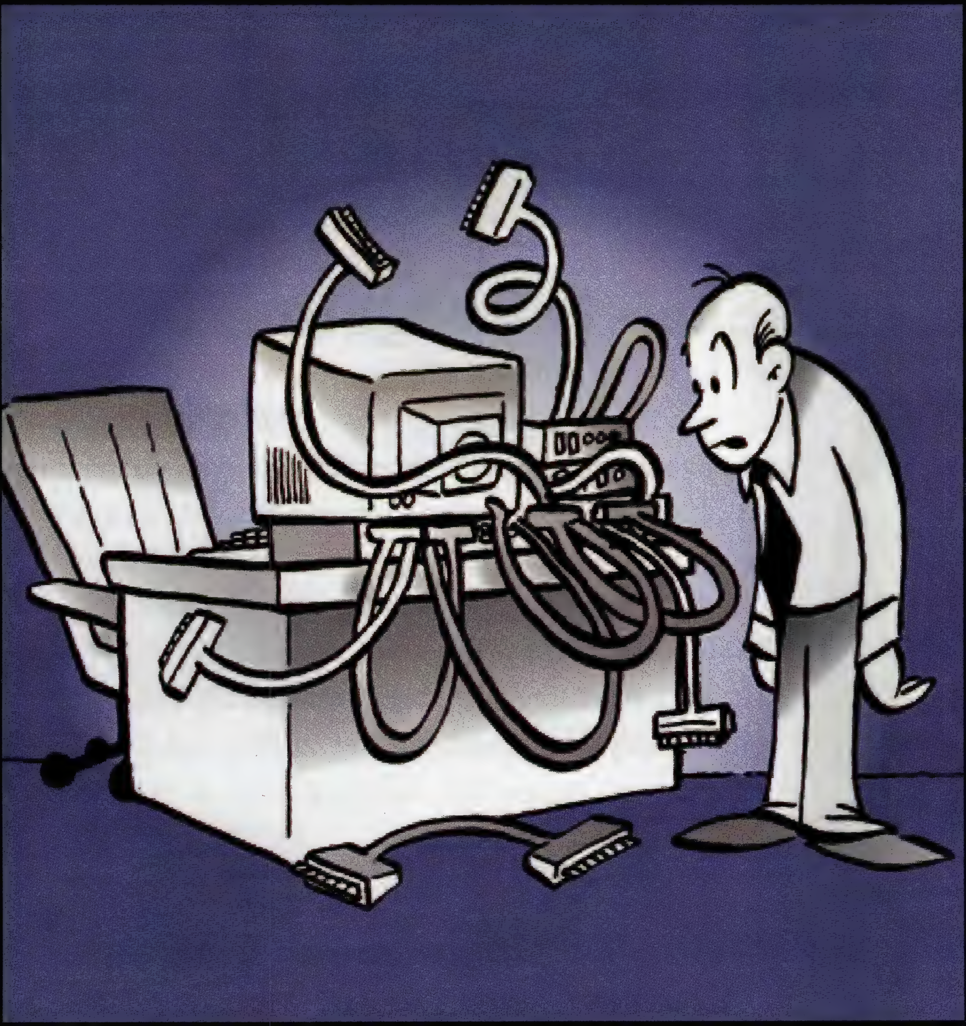
Then you can de-click or de-hiss the file by right-clicking and selecting Declick Track. We had hoped for better results in cleaning up severely noisy tracks; dedicated products, such as the plug-in for Sonic Foundry's Sound Forge, do a better job.

Once you've settled on your track list, you simply hit Record, and Gear Audio offers you the choice of testing and recording or simply recording your files.

The software covers all the bases, but it doesn't include some of the niceties found in Adaptec's Easy CD Creator, such as a dedicated CD duplication applet, a built-in sound editor, and the ability to handle WAV files in various formats. Since they cost about the same, potential buyers may want to consider the Adaptec product first.

—Patrick Norton

SECTION CONTINUES ON PAGE 270



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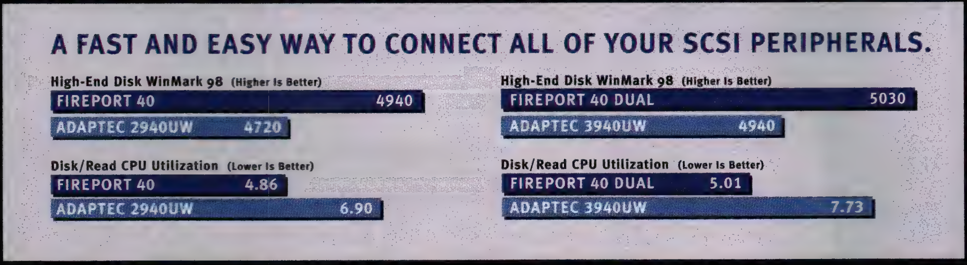

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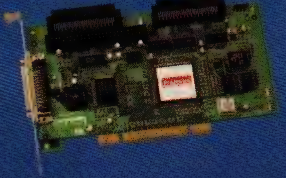

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Windows Stellar APRIL 1997

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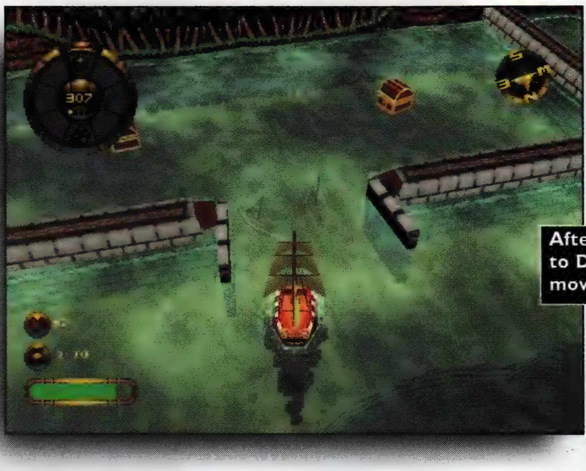
GAMES

SHIPWRECKERS

A totally charming and whimsical arcade game, Shipwreckers from Psygnosis places you at the helm of a pirate vessel sailing through Rube Goldberg-type bathtub mazes battling ships, ironclads, forts, birds, bombers, UFOs, and many other denizens of the Salvador Dali deep.

The game play is simple, yet surprisingly fun: You sail about collecting treasure, map pieces, ammo, a variety of weapons, and other special powerups that can temporarily make your vessel invulnerable (ironclad), airbound (by transforming it into a balloon, faster (by turning it into a steamboat), and so on. You also collect bottles that give you new parts of a treasure map for each level. When you've collected all the bottles, the X marks your exit. The levels increase greatly in complexity as the game progresses, but the handy automap and compass help you stay on course.



After sending your adversaries down to Davy Jones's locker, it's safe to move in to collect the booty.

Another feature that more designers should heed is the variable points of view. You can pilot your ship from behind and above, directly above, or from a detached point above and to the south of your ship. Each view has its merits and can be changed at any time with a click of the Tab key. All the game controls are completely customizable, including support for joysticks and game pads. There is no mouse support, however. As a result, all menu choices are made via the keyboard.

Shipwreckers
Psygnosis
989 E. Hillsdale Blvd.
Foster City, CA 94404
800-438-7794; 650-287-6500
Fax: 650-287-6601
www.psygnosis.com
System: Windows 95
Mfr. Est. Price: $45

Shipwreckers supports up to five players on a single system with 10 special arenas for multiplayer games, but lacks options for network and Internet play. The game offers three difficulty levels, as well as controls for music volume and graphics detail (some form of 3-D acceleration in hardware is required). With all the graphics options turned on, the game was a visual feast on our system using a 3Dfx-based accelerator card. We particularly enjoyed the views of the ships we had sunk sitting on the bottom.

Two poor design decisions steer these pleasures into some rough waters, however. First, the game quickly ramps up in complexity and difficulty, even at the lowest setting. That annoyance is compounded by the fact that you can save a game only at the end of a level and are given too few lives.

Shipwreckers is an original pirate adventure that easily conquers even nongamers with its beautiful graphics, whimsical sound effects, and bouncy music sound track. But its flaws sink what could otherwise have been a Jolly Roger experience.

—Samuel Brown Baker II

TOMB RAIDER II

Tomb Raider II (TRII) is the obligatory sequel to Eidos Interactive's awesome original Tomb Raider, featuring Lara Croft, the most famous digital personality since Max Headroom. She's smart, sexy, rich, and has a British accent to die for. But alas, she's computer-generated...and of course, she packs an Uzi.

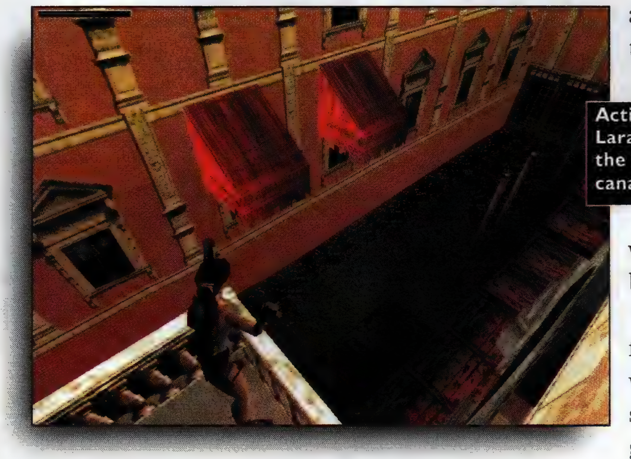
For the unfortunate few who aren't familiar with Tomb Raider, suffice it to say that it was one of last year's best action/adventure games. For those already acquainted with the game, the sequel remains unchanged as far as game play is concerned, but has even more beautiful 3-D locations to explore, more ways to get around, more enemies, and more weapons. You will, however, need a Direct3D-compliant graphics accelerator in your system to take in the sights.

Tomb Raider II
Eidos Interactive
651 Brannan St.
San Francisco, CA 94107
800-617-8737; 415-547-1200
Fax: 415-547-1201
www.eidosinteractive.com
System: Windows 95
List Price: $49.95

In TRII, Lara seeks the Dagger of Xian, an ancient Chinese artifact. Her quest takes her to such varied locations as the Great Wall of China, ice-covered Tibet, the waterways of Venice, and a sunken ocean liner. The 3-D rendered scenery is even more amazingly detailed than in the original, and you can move around freely. However, getting about is still often a matter of flipping secret levers to open faraway doors, which is natural for an adventurer in a subterranean ruin, but a little odd in Venice.

Tomb Raider II has the immediacy of the first-person Quake genre, but the perspective is from a floating camera that follows Lara as the player guides her, similar to the game play in the classic Alone in the Dark.

Although there's plenty of violence, the emphasis is on finding artifacts, keys, and secret ways to open doors. However, if Lara is faced with an attacking Doberman, a thug with a bat, or a great white shark, she won't hesitate to use her arsenal, which now includes an M-16, an Uzi, and a harpoon gun. As in the original, Lara can swim underwater, but now she can also hop into a speedboat or onto a motorcycle or a snowmobile. Because there's more fast-paced action in this sequel, the controls seem more awkward than they did in the original, especially when there are multiple bad guys.



Action-adventure heartthrob Lara Croft gets ready to take the plunge into a Venetian canal in Tomb Raider II.

Tomb Raider II is a fun, light-hearted game, with great graphics and smooth game play. Even gamers who don't own any other action/adventure games will enjoy TRII. If you liked the first Tomb Raider enough to finish it, then break out the heavy artillery and get ready for an action-packed second date with Ms. Croft.

—Jake Blackford

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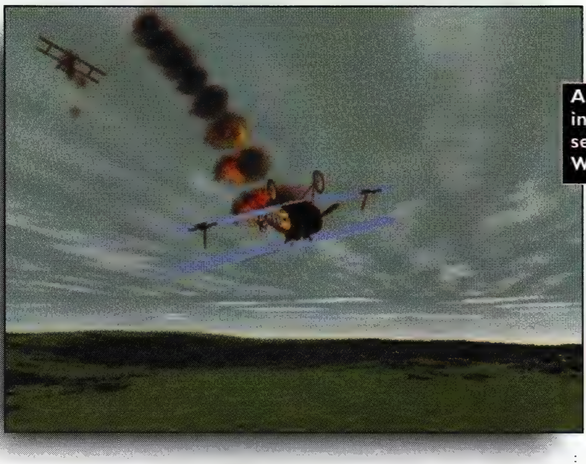
RED BARON II

If good things come to those who wait, then Dynamix's Red Baron II rewards the patience of gamers who have waited almost nine years for this sequel. Fans of the original—widely considered one of the best-loved and most influential air combat sims ever made—will not be disappointed.

Red Baron II simulates World War I dogfights, the birth of aerial combat. More than 40 vintage aircraft are represented here, including variations of the French Nieuport and Spad, the British Sopwith, and the German Fokker and Albatros; 22 of the 40 can be piloted by players. Likewise, players can fly with or against dozens of famous aces of the era, such as Germany's Manfred von Richthofen and Great Britain's Albert Ball and Billy Bishop. The skill levels and unique tactics of each ace are masterfully recreated by the simulation.

Three flight modes are available. Fly Now drops you into the thick of the action for a quick dogfight. Single Missions, based either on historic or what-if scenarios, encompass a variety of mission objectives, including air-to-air dogfights, air-to-ground bombing, reconnaissance flights, balloon attacks, or defense. Finally, Campaigns lets you create a pilot and pursue a career lasting up to three years and hundreds of individual missions. The addition of a built-in mission builder and multiplayer modes—Internet, modem, or LAN—also bring exciting new dimensions to this timeless classic.

The flight generator lets you create an unlimited number of missions that can be saved to disk and shared with other players.



A German ace goes down in flames in Red Baron II, the long-awaited sequel to Sierra On-Line's renowned WWI air-combat sim.

Adjustable variables include date, time, location, weather conditions, historical accuracy, mission type, and five levels of enemy intelligence. In addition, the program offers the Plane Paintshop, which lets players modify the colors and insignias of their crafts.

Red Baron II's flight model and terrain modeling are handled by Dynamix's new 3Space 2.0 engine. The program's flight characteristics are solid, accurately simulating roll inertia, yaw, and torque effects on level flight. Nose up too long and your engine chokes and shutters, causing tangible vibration in the cockpit. Nose down too fast and you just might rip the wings off. Its damage modeling is also terrific, with bullet-shredded canvas, shattered support braces, engine fires, and smoke effects.

The program's terrain modeling, however, is a mixed bag. The designers used a rather garish color palette, resulting in mottled terrain that often obscures enemy planes in flight. The game also lacks 3-D accelerated video support, but manages to deliver a fast, smooth frame rate without it.

Red Baron II

Dynamix
A division of Sierra On-Line
3380 146th Pl. S.E., Ste. 300
Bellevue, WA 98007
800-757-7707; 425-649-9800
Fax: 425-641-7617
www.sierra.com/rb2
System: Windows 95
Mfr. Est. Price: $54.95

With its primary emphasis on accessible and long-term game play, Red Baron II proves a worthy successor to the beloved original. ***—Scott A. May***

WING COMMANDER: PROPHECY

The last few installments in Origin Systems' mega-popular Wing Commander series fell short of the mark. Either they relied too much on full-motion video (as in Wing Commander IV) or they broke from the cherished game-play format (e.g., Privateer 2). With Wing Commander: Prophecy, however, Origin has returned to form with a superb mix of pulse-pounding action, dazzling graphics, and intriguing storytelling. The result is nothing short of the ultimate space-combat game.

Wing Commander: Prophecy

Origin Systems
5918 West Courtyard Dr.
Austin, TX 78730
800-245-4525; 650-513-7171 ext. 7555
www.wingcommanderprophecy.com
System: Windows 95
Mfr. Est. Price: $55.95

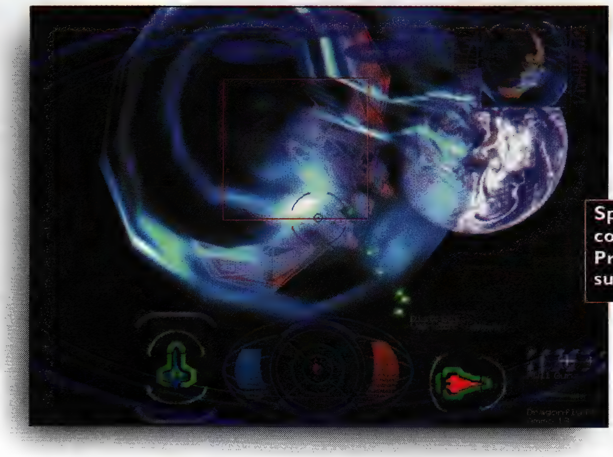
Prophecy's format is familiar—linear, plot-driven missions, woven together by Hollywood-caliber FMV sequences. Fortunately, this time around, the movies don't overwhelm the rest of the game. Prophecy emphasizes action over storytelling, so you spend less time watching and more time doing.

One new twist is that you're not jumping into the shoes of Commander Christopher Blair (although he does appear in the game, again played by sci-fi veteran Mark Hamill). Instead, you're the fresh-from-the-academy rookie Lance Casey, a skilled but unseasoned pilot. Serving with you are the usual assortment of colorful characters, including Tom Wilson's ever-popular Maniac.

The stop-the-alien-menace-before-they-destroy-the-galaxy plot is fine for a game of this type. You'll fly traditional missions—reconnaissance, seek and destroy, escort, and rescue—in one of seven sleek new ships. Wing Commander veterans will find the combat model familiar, with two distinctive changes: Enemy AI is less predictable, and you no longer get to choose your fighter or weapons load. Fast and furious, Prophecy's action poses a real threat to slow trigger fingers and shoddy joysticks, and is virtually unparalleled among space-combat games.

Although the sound effects and music are top-notch as usual, the graphics are the big news here. Prophecy delivers one extraordinary visual effect after another, from real-time colored lighting to lens flares to vapor trails. Enemy fighters explode in such dazzling fireballs that you're tempted to linger to watch them erupt, despite the danger from other attackers. In short, this is one beautiful game.

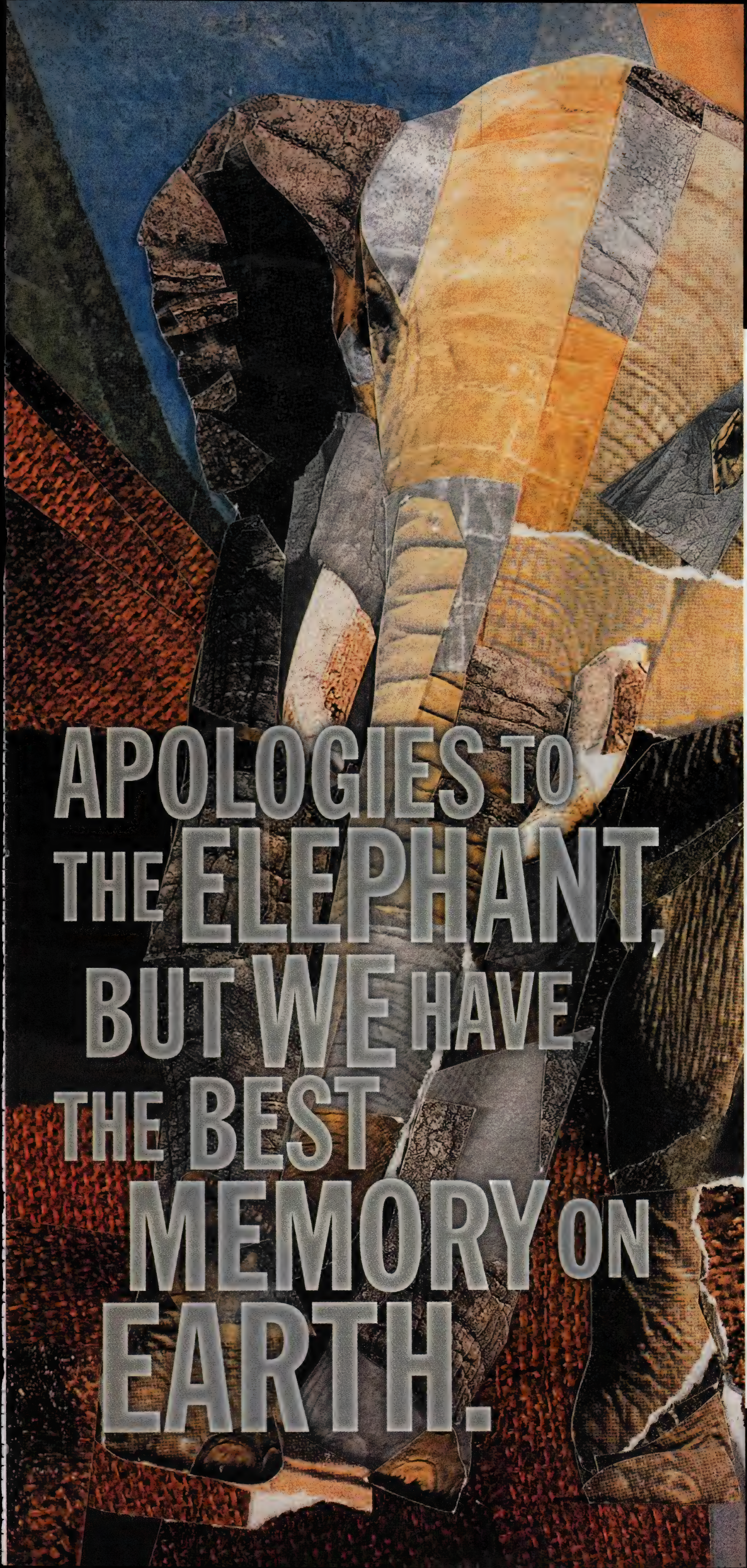
You'll need a 3Dfx-based 3-D accelerator card to truly enjoy all the visual goodies, but you'll still see some terrific eye candy if you have one of the handful of Direct3D-compatible cards the game supports. With plain-Jane graphics boards, Prophecy looks nice, but not nearly as sumptuous. In either case, don't plan on playing on anything less than a 166MHz system or the frame rate will suffer.

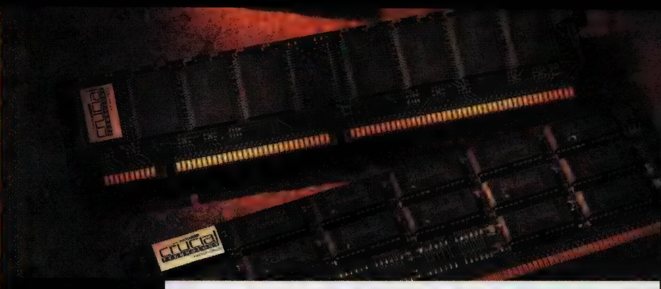


Space combat never looked so colorful as in Wing Commander: Prophecy, a terrific sequel that's sure to delight fans of the series.

All that's missing is multiplayer support, which will appear soon as either a free patch or an expansion disc. Other than that, we haven't a single complaint. If you buy one space-combat sim this year, make it Wing Commander: Prophecy.

—Rick Broida





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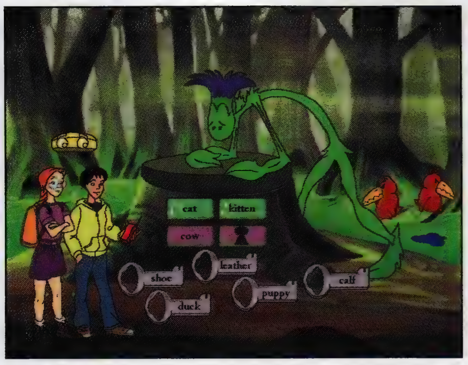
The ClueFinders' 3rd Grade Adventures

There's no whip, no fedora, and no frantic fighting, but kids can reason their way through an Indiana Jones-style caper in The Learning Co.'s ClueFinders' 3rd Grade Adventures. This title offers a compelling mix of activities that will appeal to the third-grade set, and does a great job of exercising children's logic skills in varied puzzles that involve subjects such as math, language, science, and geography.



Kids use their math, language, science, and geography skills to solve a rain-forest mystery.

When a world-renowned scientist disappears in the rain forest, it's up to kids to investigate an ancient legend while exploring lost cities and solving puzzles along the way. The game features three main paths for players to traverse, and each offers a final challenge. To take the challenge, kids solve puzzles to earn objects such as "sneezeberries" and "goo bags."

The title offers four levels of difficulty that range from early third grade to early fourth grade. With each level, the puzzles become more challenging, as well as more plentiful. Our third-grade testers had no problems solving those at the easiest level, and they found the harder levels to be suitably challenging. We were impressed with the wide range of imaginative activities: Kids can measure perimeters in pits, estimate and recognize patterns, find locations on maps, organize statements from general to most specific, place events in a logical order, identify opposite words, and lots more.

Though the game presents a series of problems, they are cleverly disguised in puzzles that kids actually enjoy playing–our third grade testers asked if they could play the title again after they were done. For this reason, The ClueFinders' 3rd Grade Adventures is the educational equivalent of the Indiana Jones trilogy—it's a rare title that uses good old-fashioned adventure to educate kids. ***—Wayne Kawamoto***

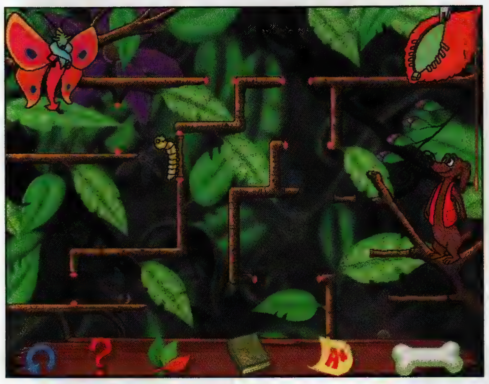
The ClueFinders' 3rd Grade Adventures
The Learning Co.
1 Athenaeum St.
Cambridge, MA 02142
800-227-5609, 617-494-1200
Fax: 617-494-5898
www.learningco.com
System: Windows or Mac
Mfr. Est. Price: $29.95

JumpStart 1st Grade Math

JumpStart 1st Grade Math drills your child on the entire first-grade mathematics curriculum while engaging him or her on a quest to restore Frankie the dog to his right size. In fact, the story line—à la *Honey, I Shrunk the Kids*—is so much fun that kids eagerly run through the title's mathematics drills.

Tiny Frankie's quest to become his right size again requires that he make friends with the insects of his backyard. He must complete number sequences to help the spider band, answer addition and subtraction problems to help the dragonflies and fleas, practice sorting to help put the ants to bed, practice estimation and measurement to help the butterflies, and recognize geometric shapes to help the beetles. Each exercise must be completed three times to earn a bone. Five bones earn a magic dog tag, and six magic dog tags earn Frankie the right to become big. (In other words, your first grader must complete 90 exercises to finish the game.)

The CD-ROM provides printouts so that children can use their skills away from the computer as well. Intelligent online help offers assistance when you're stuck. Unfortunately, our copy of the game (version 1.0) included a mix-up between the audio and visual portion of the subtraction help—an error that could frustrate a child who's already confused by the math problems.



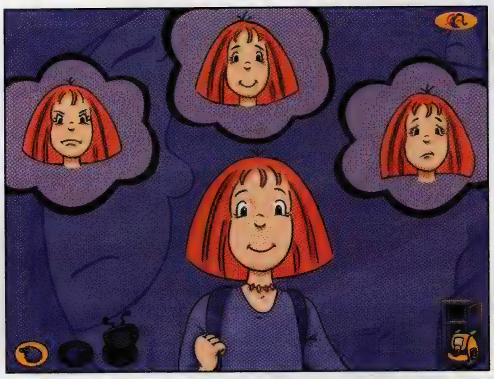
Practice estimation and measurement skills in JumpStart 1st Grade Math.

Still, our young testers adored the program. Since the material takes in the whole year's math curriculum, our first-grade testers found some of the work quite challenging. The tasks were also engaging for a third grader who needed to review his math. Best of all, JumpStart 1st Grade Math motivates children by making math drills fun. ***—Amee Abel***

JumpStart 1st Grade Math
Knowledge Adventure
1311 Grand Central Ave.
Glendale, CA 91201
800-542-4240; 818-246-4400
www.adventure.com
System: Windows or Mac
List Price: $30

Rockett's Tricky Decision

In Rockett's Tricky Decision, girls aged 8 to 12 guide Rockett Movado, the new girl in school, through the ever-changing social scene of Whistling Pines Junior High. Rockett's Tricky Decision is the second installment in Purple Moon's Rockett series and picks up where Rockett's New School left off. This time, our heroine has been invited to two Halloween parties and doesn't know what to do. Should she go to a party with the cool kids she doesn't really like or stick with her friends at their party? Things become complicated when a secret crush is thrown into the mix.

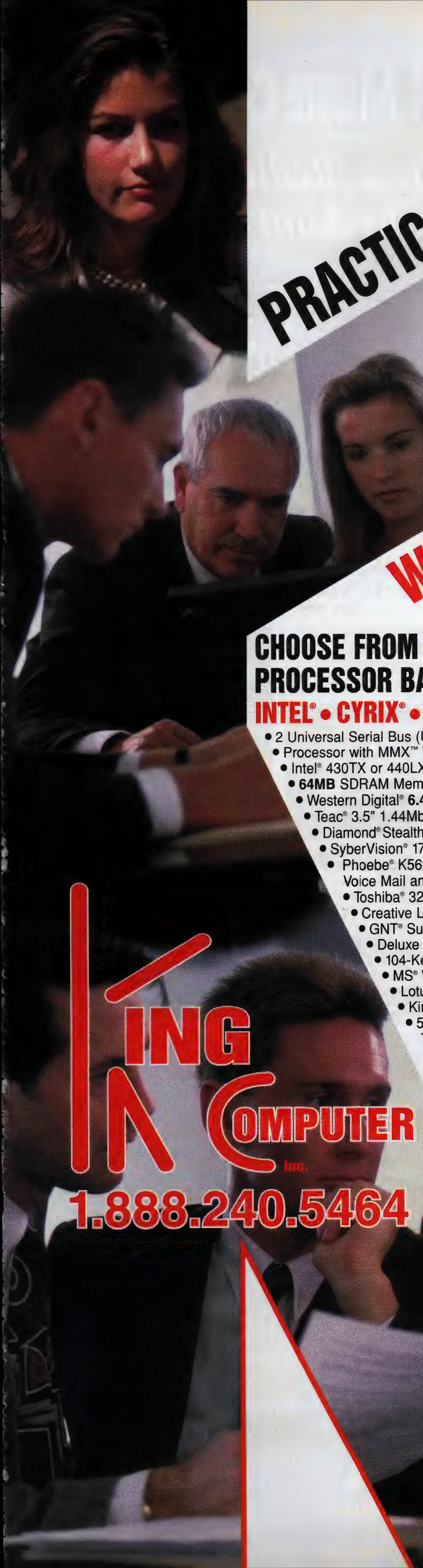


Girls can decide how Rockett responds to various situations in Rockett's Tricky Decision.

Players make Rockett's decisions for her, choosing her reactions (among a few different options) to a myriad of typical junior-high situations. For example, when Dana bad-mouths Rockett behind her back, will she play it cool, blow her top, or die of embarrassment? Every choice affects the way the story unfolds, and (unlike real life) you can always change your choice if you don't like the outcome. Fast learners will quickly discover that the more sensibly Rockett behaves, the better the outcome. However, the many possible courses of action in Rockett's Tricky Decision is what makes repeat play fun. Players can also peek into the lockers of the characters to get the inside scoop on their private lives and the subtleties of the social scene.

Our preteen girls loved the realistic scenarios; parents will appreciate the positive self-image the game promotes. Some girls might be disappointed that several subplots remain unresolved, leaving them open for the next title in the series. However, Rockett's Tricky Decision is highly entertaining overall, engaging players with every plot twist and turn. ***—Jennifer Bachman O'Brien***

Rockett's Tricky Decision
Purple Moon
1091 Shoreline Blvd.
Mountain View, CA 94043
888-278-7753; 650-526-5000
www.purple-moon.com
System: Windows or Macintosh
List Price: $29.95



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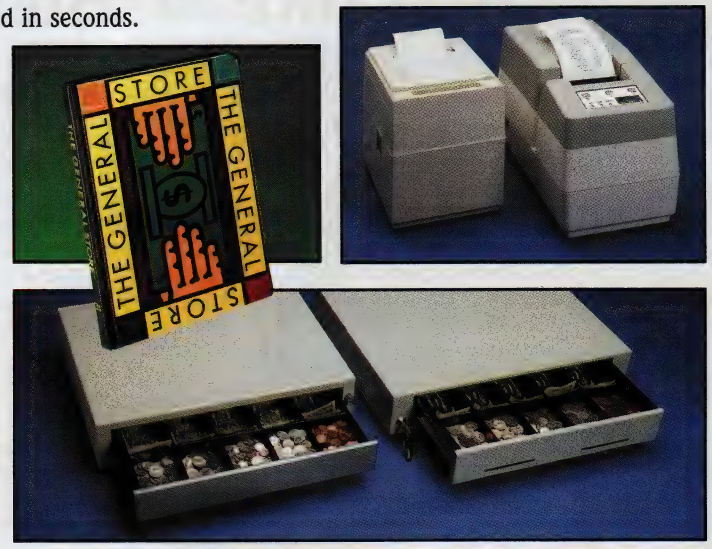

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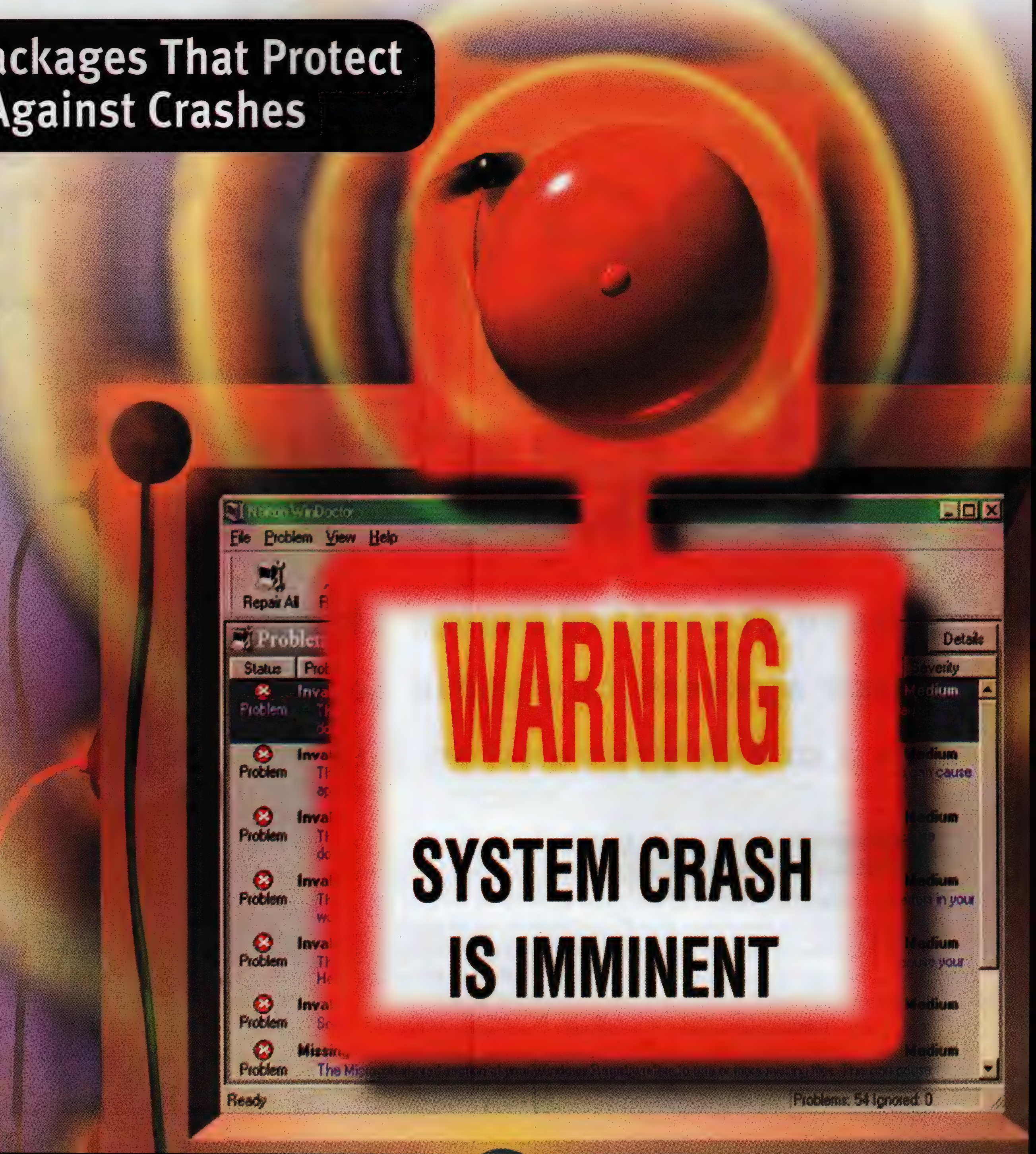
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Invalid File Extensions (2 Pro
WARNING
SYSTEM CRASH
IS IMMINENT

Preventive Medicine

These four diagnostic utilities give your system the tools to handle its own crash prevention and recovery.

by Scott A. May

LET'S FACE IT: BAD THINGS HAPPEN to good computers. Software misbehaves. Hardware devices conflict. Well-intentioned tweaking can foul up the entire system. Sometimes your PC performs like a fine-tuned machine; other times, it seems to teeter on the verge of collapse. The results can be frustrating at best and nightmarish at worst. Luckily, help is available.

Today's utilities provide you with a wealth of tools that protect your PC from stalling, freezing, or crashing. These applications also offer a large variety of diagnostic and optimization tools, but for the purpose of this roundup, we have chosen to focus primarily on those features that deal with averting and recovering after a system crash. After all, you have better things to do than fret over the safety of your data or wonder whether the next button you click will send your system crashing to its knees.

By the time you read this, the release of Windows 98 will be imminent, if not a fait accompli. Still, for this feature we looked at four of the latest software packages designed to intercept, diagnose, and fix problems that arise from the day-to-day use of Windows 95: CyberMedia's First Aid 98, Symantec Corp.'s Norton Utilities 3.0 for Windows 95, McAfee Associates' Nuts & Bolts 1.04, and Quarterdeck Corp.'s Real-Help Extra Strength. Many of these products were designed to be compatible with Win 98 or will have such compatibility in the near future. Some of these products are more feature-rich or user-friendly than oth-

ILLUSTRATION BY STEPHEN DURKE

ers, but they all seek to serve a single purpose: to ease your worries and give you some peace of mind.

FIRST AID 98

One of the first publishers to offer crash protection, CyberMedia has virtually owned the market since the 1996 debut of First Aid. This '98 update to the product has been completely revamped, offering a user-friendly interface unmatched by any competitor.

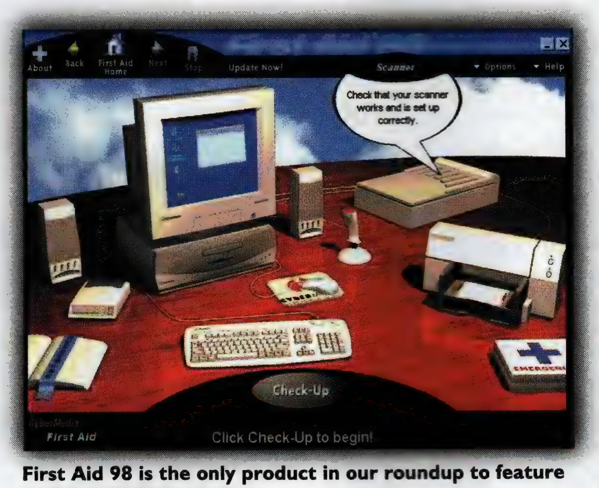
Upon launching First Aid 98, users are greeted by a full-motion video guide that provides a quick overview of the program's features and navigational buttons. A computer-rendered graphic of a desktop PC, surrounded by a full complement of hardware devices, serves as the program's menu. This is the only product in our roundup with such multimedia elements.

To anticipate and prevent hard drive arrest, First Aid's Windows Guardian monitors system conflicts in the background. It keeps track of memory resources and disk space, intercepts crashes, and performs CPR on frozen applications. Because Guardian itself utilizes only 2 percent of system resources while running—the least of any crash protector reviewed here—there's virtually no danger of its slowing down Windows 95 or causing problems with other open applications.

When a software crash is detected, Guardian calls upon an internal knowledge base of more than 10,000 Windows applications in an attempt to diffuse the problem intelligently. A large window pops up to notify you that a serious problem has been intercepted. You can then instruct Guardian to perform an autofix of the error or shut down the faulty application. Where there's smoke, there's usually fire, so if an application tries to crash once, you can bet it will happen again if it's not closed and restarted. Your best choice is to autofix the problem, save your work, and restart the troubled application.

Guardian also lets you view and save a report of the crash for future reference, especially important for speaking intelligently with tech support. Guardian produces the most comprehensive crash reports of all products we tested. In addition to standard info on registers, stack dumps, and modules, Guardian displays a full list of all programs running at the time of the crash, as well as Win 95's memory conditions.

Like RealHelp, Guardian utilizes new hard drive sensors, known as Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.), to give advance warning of impending doom. It also takes a snapshot of critical system files each time it runs, with options to restore backups or undo changes made in previous sessions.



Check that your scanner works and is set up correctly.

Click Check-Up to begin!

First Aid 98 is the only product in our roundup to feature multimedia online help.

As a final safeguard against a complete system seizure, First Aid lets you create an emergency boot disk, used to start your PC and restore critical start-up files that may be corrupted or deleted. The emergency disk simply restores the last copy made of your start-up files, after which you should have full access to your hard drive and Windows 95.

First Aid's system-monitoring and crash-interception capabilities are top-notch. Combined with a wealth of reference materials and multimedia help, CyberMedia's latest effort is a tremendous resource, particularly for first-time PC users.

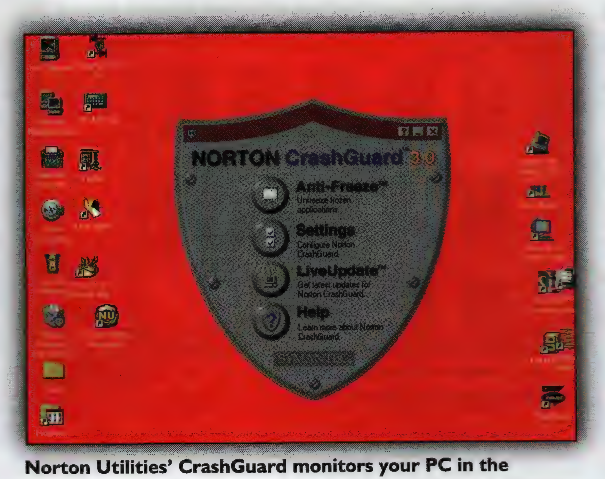
NORTON UTILITIES 3.0 FOR WINDOWS 95

The granddaddy of all modern PC self-help tools, Norton Utilities was first introduced in 1982. Sixteen years and countless revisions later, Symantec's Norton Utilities 3.0 for Windows 95 is a masterwork of automated, integrated system support. Combining 15 separate tools, accessed through a new unified interface, this latest version of Norton Utilities is more robust and user-friendly than ever. (For more in-depth coverage, see the April 1998 review, "A Workhorse Keeps Its Lead," p. 368.)

Norton CrashGuard 3.0, which is also sold separately as CrashGuard Deluxe for $49.95, is built into the new Norton Utilities. CrashGuard monitors your computing activities in the background, stepping forward only when a system crash is imminent. The program intercepts the crash and in many cases allows you to unfreeze stalled applications. You can also choose to add CrashGuard's Anti-Freeze capabilities to Win 95's task menu, accessed when you do a soft reboot by hitting Ctrl+Alt+Del.

Utilizing a traffic-light motif (red for a severe problem, yellow for caution, and green for an easy fix), CrashGuard offers protection against a wide array of common (and not so common) conflicts that beset 32-bit applications and older 16-bit applications. CrashGuard also keeps an eye on system resources, checking for conditions that might lead to a crash, and either alerting you to potential problems or silently fixing them before a crash occurs.

Like the other products that protect against crashes, Norton Utilities lets you perform a "test crash" in order to preview how CrashGuard operates. From the option menu, you can choose among 18 common 32-bit application errors and four types of error conditions that frequently strike 16-bit applications.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SYMANTEC

Norton Utilities' CrashGuard monitors your PC in the background and alerts you when it detects a potential crash.

Once an error has been triggered—either in a test or the real deal—CrashGuard immediately opens a large window notifying you of impending danger. In this window, the program identifies the source of the problem, the reason for the conflict, the severity of the situation, and the probability of CrashGuard being able to fix the problem.

Under most "yellow" and "green" conditions, CrashGuard simply quashes the error and advises you to save your work and restart the ill-fated application. Not all crashes are recoverable, of course. A "red alert" crash typically results in CrashGuard's automatically shutting down the application, thus causing you to lose whatever work has not been saved.

When active, CrashGuard is virtually invisible to all other applications, consuming 3 percent of Win 95 resources, or about the same as the other products tested.

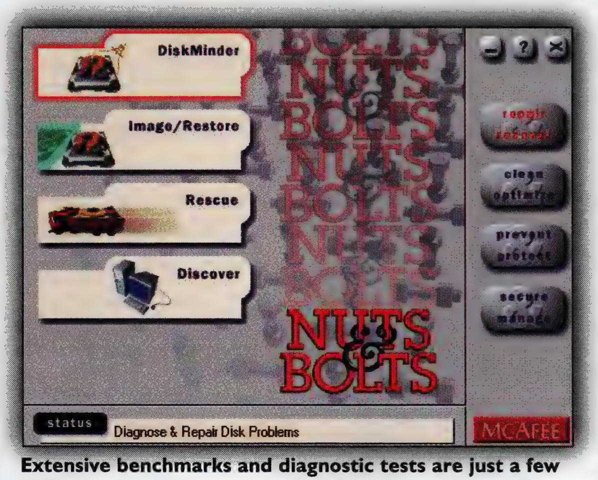
In the event of a major meltdown, Norton Zip Rescue offers optional support for Iomega's Zip or Jaz drives for full system recovery. This allows you to boot directly into a special Windows 95 diagnostic mode—as opposed to the cold DOS prompt—which gives access to Norton's full range of problem-solving tools.

A must-have for any Windows 95 user, Norton Utilities 3.0 provides just about everything you need under one roof.

NUTS & BOLTS 1.04

Remarkable both in style and content, McAfee Associates' Nuts & Bolts ups the ante when it comes to user-friendly Windows 95 crash prevention and recovery utilities. Contained within this single program are no less than 17 incredibly useful tools, designed to make your computing time easier, safer, and much more productive.

Crash protection is provided by Bomb Shelter, a background utility designed to prevent a variety of Windows 95 software conflicts that might otherwise result in system failure and in corrupted or lost data. Bomb Shelter intercepts potential crashes—both 16-bit and 32-bit varieties—allowing you to unfreeze the offending application and save your work. Like Norton Utilities' CrashGuard, Bomb Shelter adds a recover option to Windows 95's reboot task menu.



Extensive benchmarks and diagnostic tests are just a few of the tools available in Nuts & Bolts.

For advanced users, Bomb Shelter lets you specify the exact amount of system protection you desire in the event of a crash, including write-protecting the first megabyte of memory so that applications cannot change it; write-protecting all Interrupt Descriptor Tables (IDTs) and virtual device drivers (VxDs and VMMs); and locking kernel segments into memory so that Windows cannot unload them.

In our tests, Bomb Shelter consumed about 3 percent of system resources, barely affecting our other active applications. Like the other crash protectors reviewed, Bomb Shelter lets you perform a crash test, but limits you to a choice of 11 simulated errors, as opposed to the 22 16-bit and 32-bit errors offered by Norton and RealHelp.

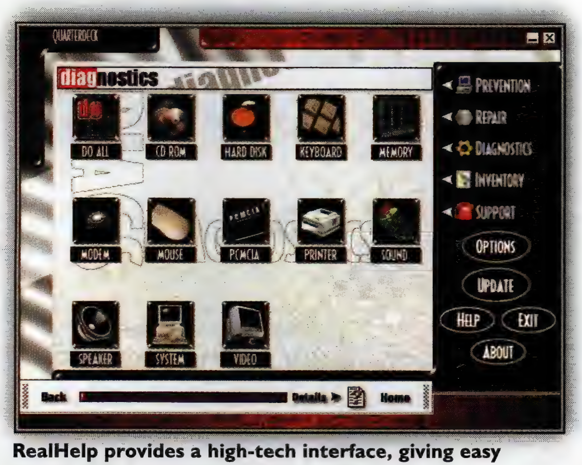
When it's triggered by an error, Bomb Shelter brings up a tiny window onscreen alerting you to the danger. Your choices are to close the faulty program, view details of the error, or allow Bomb Shelter to attempt to recover from the crash. Compared with other products tested here, particularly Norton's CrashGuard, Bomb Shelter is much less verbose in its error message. Details of the crash are standard Windows 95 technobabble—register and stack dump numbers—that means nothing to the average user. To use this info, you must cut and paste it into a text editor; this contrasts with Norton Utilities and RealHelp, which allow you to print or save crash data.

Most other tools included in Nuts & Bolts fall under the category of preventive maintenance. But if all else fails, and the program cannot avert a major catastrophe, the Image & Restore tool lets you create an image file of critical system information, including the Windows 95 Registry. In the event your system becomes corrupted, you can instantly restore your system using this image file. A separate utility, Rescue Disk, is used to boot your computer if total disaster strikes.

For day-to-day insurance of smooth Windows 95 performance, it's difficult to beat Nuts & Bolts. Sheer power and diversity place it near the top of the list.

REALHELP EXTRA STRENGTH

Quarterdeck may be the new kid on this block, but it is certainly no stranger to the world of self-help PC tools, with best-selling products such as CleanSweep Deluxe and TuneUp under its corporate belt. The company's first all-in-one diagnostic utility, RealHelp, takes aim at the same lucrative market currently dominated by Symantec, CyberMedia, and Helix.



RealHelp provides a high-tech interface, giving easy access to the program's myriad tools.

Today's utilities provide you with a wealth of tools that not only monitor, diagnose, and optimize your system, but also protect it from stalling, freezing, or crashing.

RealHelp comes in two strengths: Regular ($39.95), which contains only the Crash Defender and S.M.A.R.T. disk utilities, and Extra Strength ($59.95), which adds additional tune-up tools. Boasting an almost sci-fi graphical interface, RealHelp is certainly flashy, but is there substance beyond the pretty wrapping?

Upon first loading RealHelp, users may think they have accidentally booted up a Mech Warrior game. The main console is ultraslick and graphically rich, and grants easy access to more than a dozen utilities. Navigation is a breeze using this modular interface, which features balloon help and step-by-step instructions for each tool.

Service Manager is a multipart utility that resides in the Windows 95 tool tray and constantly monitors your system for a variety of ailments. It offers 15 components, including Crash Defender, which intercepts and unfreezes more than two-dozen common conflicts to which both 16-bit and 32-bit applications are susceptible. In the event of a crash, Crash Defender allows you to fix the problem, save your work, and exit the troublesome program. Another handy option lets you save information about the problem as a text file, which can later be used to troubleshoot the crash with the manufacturer's tech support.

RealHelp also utilizes S.M.A.R.T. disk technology (special sensors built into new Win 95 hard drives) to alert users of critical problems with the hard drive, often days in advance of a potential crash.

By attempting to predict potential software conflicts before a new application is even installed, the Preinstall Inspector also plays an important part in preventing system freezes. It works by comparing RealHelp's massive software knowledge base with your system's hardware settings and installed applications. If a known conflict exists, RealHelp describes the problem and suggests a fix.

Similar in behavior to the other crash protectors reviewed here, Crash Defender uses about 3 percent of Win 95's system resources and doesn't appear to slow down or interfere with normal operations when activated.

The program's repair tools include an emergency-boot-disk creator; a performance optimizer; and the Change Remover, which allows you to undo any system changes implemented by RealHelp, an excellent option that few competitive products offer. In the event of a crash that renders your critical system and configuration files unusable, RealHelp lets you create a special emergency boot disk. This disk will get you back to a DOS prompt, from which you can restore your Win 95 settings to proper working order.

All in all, RealHelp is a solid product, worth buying for its Service Manager and enormous knowledge base. For comprehensive diagnostics, however, you might want to look elsewhere. ▼

PRODUCT LISTING

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CyberMedia
3000 Ocean Park Blvd.
Ste. 2001
Santa Monica, CA 90405
800-721-7824
Fax: 310-581-4720
www.cybermedia.com
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Norton Utilities 3.0 for Windows 95

Symantec Corp.
10201 Torre Ave.
Cupertino, CA 95014
800-441-7234
Fax: 310-449-7041
www.symantec.com
Requires: 35MB hard drive space; Windows 95
List Price: $79

Nuts & Bolts 1.04

McAfee Associates
2805 Bowers Ave.
Santa Clara, CA 95051
408-988-3832
Fax: 408-970-9727
www.mcafee.com
Requires: 20MB hard drive space; Windows 3.x or Windows 95
Mfr. Est. Price: $49.95

RealHelp Extra Strength

Quarterdeck Corp.
13160 Mindanao Way
Marina del Rey, CA 90292
800-282-0866
Fax: 310-309-4203
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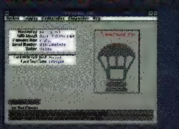

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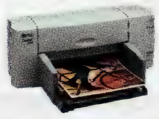

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On Windows

BY PAUL BONNER

There's No Method to Netscape's Madness

All the people I know who aren't programmers were highly impressed by Netscape's recent decision to publicly release the source code to its now free Web browser.

"That'll really shake things up," they assured me, adding, "You sure won't see Microsoft doing that."

They're right about that. Microsoft won't be releasing the source code to Internet Explorer anytime soon, and not just because the company has managed to avoid piloting itself into the same desperate straits as have Netscape's navigators. No one outside of Microsoft needs the source code to Internet Explorer because Internet Explorer already consists of a series of fully documented reusable components. Any Windows programmer who wants to co-opt IE's capabilities or extend them can do so without ever messing with the IE source code. Using Internet Explorer's WebBrowser object, a Visual programmer can build a complete Internet-enabled application in about the same time that it would take to unZip the first couple of million lines of Navigator's source code.

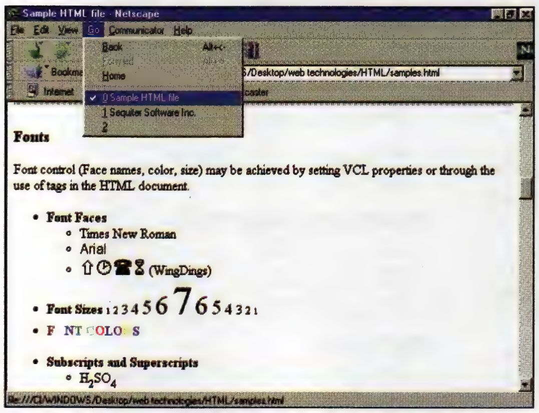
From my point of view as a programmer, the difference is like that between Stone Age technology and nanotechnology. IE exposes a couple dozen flexible and well-documented objects, making it a superb component for use in any application that needs Web-access capabilities. Moreover, you can incorporate them using any programming language capable of manipulating ActiveX objects—everything from a batch-level tool like Wilson WindowWare's WinBatch to Visual Basic or C++. Why on earth would any programmers who seriously value their time want to shift from that to working with Navigator's millions of lines of language-dependent code?

If you take the folks from Netscape at their word, this move transforms their flagship product into a sacred trust that they've pledged to safeguard, if not maintain, for all time. Navigator is officially free, and Netscape will post its source code on its Web site for any users with compilers to download and customize to their hearts' content. Moreover, programmers the world over will be able to upload the additions or modifications that they've made to the Netscape site, where, presuming they pass Netscape's muster, they will be incorporated into the next version of the official Navigator source code.

If computer software were like any other business, that would truly be an extraordinary move. Imagine if Coca-Cola had reacted to Pepsi's surge in popularity a few years back by posting the secret formula for Coke on bulletin boards in every supermarket and announcing that from now on, every consumer would be free to tinker with the recipe while the company itself would concentrate on its bottling operations. Would that have been brilliant? Or desperate? Or desperately brilliant? I don't know, but I do know it would have been a pain for anyone who just wanted a quick thirst quencher to wash down some fries.

The reality, of course, is that the software business isn't like any other. Its products are completely intangible, and their pricing is based almost entirely on perceived value as opposed to material costs. And somehow in that context, Netscape's announcement sounds like a noble move. Having decided that it can't compete in the browser market Netscape will nonetheless keep a candle burning in the window (so to speak) for every refugee fleeing the iron fist of Microsoft's hegemony.

Still, in the real world—which in this case includes even the software business—moves like this are about bucks, not nobility. That's clearly the case here, too. Netscape's officers have a fiduciary duty to attempt to make money for their stockholders, and this move might just let them do so, even after all the missteps they've made getting to this point. Netscape can't make money selling Navigator, so the company won't even try anymore. But Netscape can't just walk away from Navigator, either, because then it would lose its status as the poster child for all the people who don't want to live in a "Made by Microsoft" world. Netscape can't compete with Microsoft's R&D budget for NT, but by maintaining Navigator as a public trust, Netscape can compete for the hearts and minds of Web users around the world, at a small fraction of the cost of any other means of doing so. The ongoing publicity value alone should cover the cost of maintaining the Navigator trust for many years.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- F NT COLO S
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Call it nobility or call it desperation, but Netscape Navigator and its source code are now free for all.

There's an obvious counterargument to my cynicism here: No matter what Netscape's motives, the net (no pun intended) result will be a Web experience not quite as barren as if Netscape simply dried up and blew away like last year's Microsoft challenger. Maybe there is some truth in that. I, for one, would like it to be so. But I suspect it won't be. For one thing, Microsoft, being Microsoft, will continue to overestimate the threat posed by Navigator through a couple more iterations of Internet Explorer, by which point it will be light-years beyond Navigator in capability. Moreover, I suspect that only bad things will come about as a result of Netscape's making Navigator's source code freely available.

For the reasons I described above, the vast majority of corporate and professional developers will opt to work with Internet Explorer's object model in lieu of Navigator's bits and bytes. That means that Navigator's source code will primarily be a plaything of hackers and hobbyists. That may result in some interesting, if buggy, extensions to the basic browser object, but it'll certainly pave the way for mischief and worse, too. The untold millions of browser users worldwide will be irresistible targets for bad boys and girls who will think they can become rich (or at least, gain official certification as an "evil genius") by promulgating a customized version of Navigator that steals passwords and credit-card information, or that harbors other equally malicious Trojan horses and time bombs.

I hate to be the party pooper here. I liked the way Netscape burst onto the scene, and I hated to see the bubble burst so soon. Things would be better for all of us if Netscape had been a more effective competitor for Microsoft. But it wasn't, and now all we're left with is a freeware Navigator, one that smart programmers should avoid and smart users should view with significant skepticism. ▼

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- ▶ Microsoft Office Small Business Edition ▶ 104-Win Keyboard ▶ 2 USB Ports ▶ ATX7 Mini-Tower Case ▶ Microsoft® IntelliMouse™ ▶ Microsoft Internet Explorer 4.0
- ▶ Microsoft Windows® 95 with PLUS PACK ▶ 5/3 Year Warranty & Support ▶ Optional 1st Year On-Site Service provided by Dow Jones

PRO-333 AGP

- Intel 333 MHz Pentium® II processor with 512K Cache
- 64 MB Synchronous DRAM
- 6.4 GB Ultra ATA Hard Drive & 3.5" Floppy Drive
- **Iomega Internal 100 MB Zip Drive (includes one Disc)**
- ATI 3D XPERT AGP Graphics Card with 4 MB SGRAM
- 17" .28dp Monitor (15.8" display)
- 32X Max CD-ROM Drive
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- Intel 300 MHz Pentium® II processor with 512K Cache

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PRO-333 AGP

- Intel 333 MHz Pentium® II processor with 512K Cache
- 128 MB Synchronous DRAM
- 8.4 GB Ultra ATA Hard Drive & 3.5" Floppy Drive
- ATI 3D XPERT AGP Graphics Card with TV-Out & 8 MB SGRAM
- 19" .26dp Monitor (18" display)
- **Sony CD-R Drive (2X Write/8X Read)**
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- Altec Lansing ACS-45 Speakers with Subwoofer
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PRH-300 AGP

- Intel 300 MHz Pentium® II processor with 512K Cache
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- 17" .28dp Monitor (15.8" display)
- 32X Max CD-ROM Drive
- 56K Flex Modem for Windows***
- Sound Blaster AWE64D Wavetable PCI Sound Card
- Altec Lansing ACS-45 Speakers with Subwoofer
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- 6.4 GB Ultra ATA Hard Drive & 3.5" Floppy Drive
- ATI 3D XPERT AGP Graphics Card with 4 MB SGRAM
- 17" .28dp Monitor (15.8" display)
- 32X Max CD-ROM Drive
- 56K Flex Modem for Windows***
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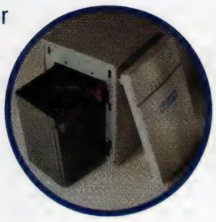

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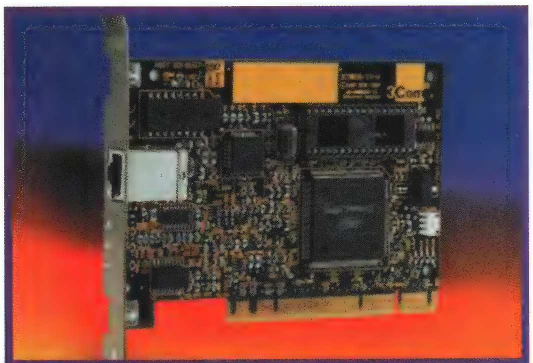

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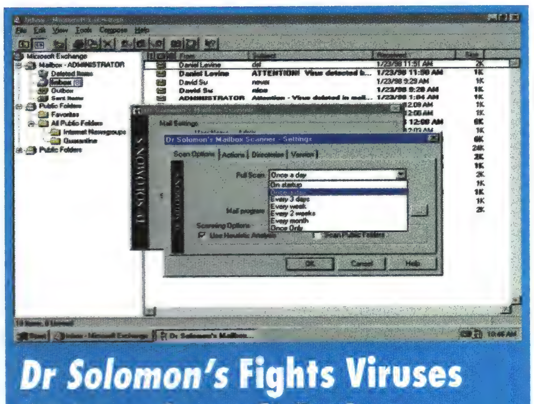

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Dual Processor and RAID Capable
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- Integrated PCI Ultra-Wide SCSI-3 Controller
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- ★ **APC Smart-UPS 700 Power Supply**
- 24X Max[§] Variable SCSI CD-ROM Drive
- Intel Pro/100B PCI Ethernet Adapter
- HP OpenView NNM Special Edition
- 6 Expansion Slots: 3 PCI/3 EISA
- 6 Drive Bays: 3 External 5.25"/3 Internal 3.5"
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DELL DIMENSION XPS D300
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FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 128MB SDRAM
- 8.4GB Ultra ATA Hard Drive (9.5ms)
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- STB nVidia 4MB 3D AGP Video Card
- 2X DVD-ROM Drive and Decoder Card
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- Altec Lansing ACS-90 Speakers

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- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000TX 17" (15.9" v.i.s., .26dp) Trinitron Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
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Business Lease◊: $83/Mo., 36 Mos.
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DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM
- 6.4GB Ultra ATA Hard Drive (9.5ms)
- 1000LS 17" (15.9" v.i.s.) Monitor
- STB nVidia 4MB 3D AGP Video Card
- 32X Max^ Variable CD-ROM Drive

★ *Upgrade to 64MB SDRAM, add $99.*

★ *Upgrade to an 8.4GB Ultra ATA Hard Drive, add $49.*

★ *3Com 3C905 Fast EtherLink™ XL 10/100 PCI Card, add $79.*

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- 80MB EDO RAM
- 4GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 65K Colors at 1024x768
- 56K Capableπ K-Flex Modem
- Smart Li-Ion Battery with ExpressCharge™
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233MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK

Common features listed above plus:
- 12.1" SVGA Active Matrix TFT Display
- 32MB EDO RAM
- 3.2GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 16 Million Colors at 800x600
- Smart Li-Ion Battery with ExpressCharge
- 5.9 Pounds*

★ *Upgrade to a 13.3" XGA Active Matrix TFT Display, add $300.*

★ *Upgrade to 64MB EDO RAM, add $199.*

★ *Upgrade to a 4GB Ultra ATA Hard Drive, add $99.*

★ *56K Capableπ K-Flex Modem, add $199.*

★ *2nd Smart Li-Ion Battery, add $169.*

$2999

Business Lease◊: $114/Mo., 36 Mos.
Order Code #890410

DELL LATITUDE CP M200SD
200MHz PENTIUM PROCESSOR
WITH MMX TECHNOLOGY

NETWORK-TAILORED NOTEBOOK

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- 32MB EDO RAM
- 2.1GB Ultra ATA Hard Drive
- 128-bit Graphics Accelerator with 16 Million Colors at 800x600
- Smart Li-Ion Battery with ExpressCharge
- 5.9 Pounds*

★ *Upgrade to 48MB EDO RAM, add $99.*

★ *Upgrade to a 3.2GB Ultra ATA Hard Drive, add $99.*

★ *56K Capable** x2 Modem, add $149.*

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Business Lease◊: $87/Mo., 36 Mos.
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NETWORKING

The HUB

By Stephanie Izarek

Sharing the Wealth

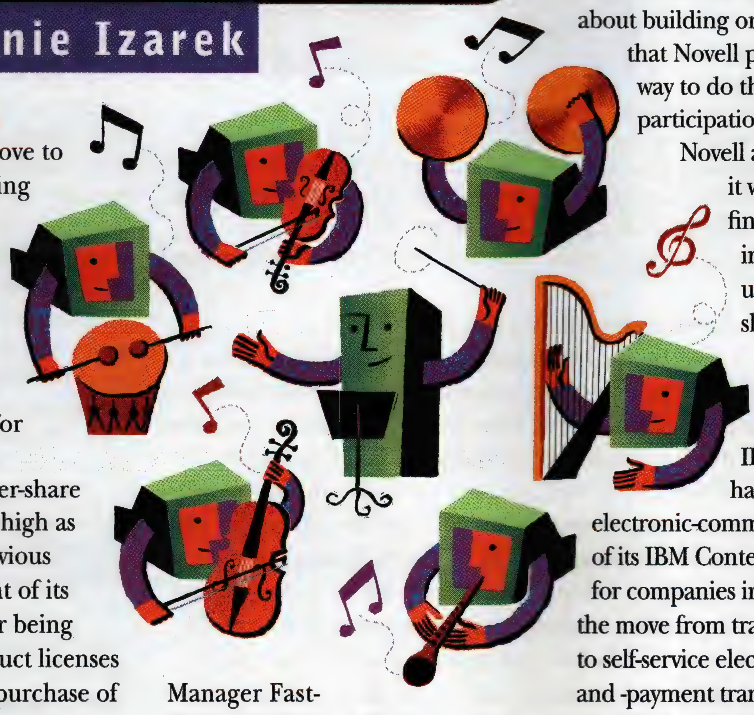
On a follow-up move to Novell's surprising first-quarter earnings, the company will allot $50 million to fund companies that are developing Java-based Internet applications for the NetWare platform.

Novell's earning-per-share numbers were twice as high as those reported the previous quarter, with 68 percent of its sales in the first quarter being attributed to new product licenses and 32 percent to the purchase of upgrades.

Novell shipped Border Manager Fast-Cache, NDS for NT, Netscape for NetWare servers, and year 2000 solutions for NetWare and ManageWise—all part of an aggressive restructuring strategy put into effect last August.

Eric Schmidt, Novell CEO, said in a conference call in late February that the Internet fund is for companies that work to expand the success of the Novell platform. Novell's goal is ensure that "those companies that need a little bit of help get excited about building on the infrastructure that Novell provides. And one way to do this is to have equity participation."

Novell also confirmed that it will distribute the final NetWare 5.0 beta in April so the scheduled summer release should be on track.



ILLUSTRATIONS BY TIMOTHY COOK

Betting the Server Farm

IBM Global Services has announced the electronic-commerce component of its IBM Content Hosting Services for companies interested in making the move from traditional marketing to self-service electronic-commerce and -payment transactions.

The new component, which is based on IBM's Net.Commerce server software, offers the hardware and software required for creating and maintaining mission-critical sales sites. The service will cost $3,500 per month in addition to the initial $3,500 setup fee.

Customers will receive a dedicated AIX server with abundant memory for higher performance, sophisticated security services, monitoring, and extra bandwidth.

The component expands the offerings of the IBM Universal Server Farm strategy, announced in December, which delivers common high-performance, high-capability, and high-availability at all of its server farms.

While this market is already becoming saturated with similar service providers, and many organizations are going the route of in-house development, IBM plans to lure customers with expanded maintenance services. IBM will offer higher-end security, content management, order management, and other mission-critical services to the medium-size clients. This allows IBM to target manufacturers and distributors in search of an alternative Web-based solution that can support business-to-business sales and integration. ▼

Gigabit Ethernet Task Force Delays Standard

DMD INTERFERES WITH FIBER TRANSMISSIONS

By David Aubrey

In a move that caught both vendors and users by surprise, the IEEE's Gigabit Ethernet task force voted to delay ratification of the Gigabit Ethernet specification, 802.3z, until June 1998 at the earliest. Surprisingly, the problem stemmed from difficulty with data transmissions over multi-mode fiber-optic cable, a medium most early adopters of Gigabit Ethernet have taken for granted.

The problem, dubbed Differential Mode Delay (DMD), revolves around too much transmission "jitter."

Multimode fiber-optic cable is preferred because it uses more than one beam of light per fiber, resulting in increased speeds. But the use of two beams is what causes the jitter. When the beams are transmitted next to each other, one beam reaches the destination before the other, forcing it to wait until the slower beam catches up.

Bob Grow, vice chairman of the Gigabit Ethernet Alliance, says the task force originally thought it would have to cut Gigabit Ethernet's maximum transmission distance from 260 meters on 62.5-micron fiber-optic cable to less than half, at only 100 meters.

But the task force has announced that a new solution known as the "conditioned launch" is in the works.

Grow says, "In this approach, the laser sending the data will produce a light pattern that is much more similar to an LED than what is currently used for Gigabit Ethernet transmissions. Since fiber-optic cabling was designed for LED transmissions, this should make data transfers stable enough to do away with any distance limitation."

Gigabit Ethernet product vendors have taken the news with mixed feelings. Some companies like Bay Networks and Compaq Computer Corp. announced that no Gigabit Ethernet product would ship without the ratified 802.3z spec. In contrast, Cisco Systems introduced Gigabit Ethernet uplinks for its Catalyst 5000 switch series and its 7500 series router family. It also incorporated gigabit route-switching capabilities into its NetFlow architecture.

Despite news of the delay, 3Com Corp., which has been shipping Gigabit Ethernet switches and NICs since last November, announced that it would likewise continue to ship new products.

Clearly, most vendors and the alliance itself feel that it is safe for customers to continue with their Gigabit Ethernet installations. ▼

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Network Security Gets Tight With Biometrics

VENDORS GET READY TO SHIP FINGERPRINT-AUTHENTICATION SYSTEMS

By Stephanie Izarek

Although government and law-enforcement agencies have been using the combination of optical-scanning devices and electronic databases to store and match fingerprints for many years, businesses have shunned the technology due in part to its high cost. Now with emerging, affordable biometric sensing devices, system manufacturers, banks, and online merchants can take advantage of these effective security systems.

Biometrics uses digital imaging to identify individuals based on their physical characteristics, such as fingerprints, voices, or irises (the colored portion of the eye). With the growing concern over network information security, biometrics holds great potential as a replacement for passwords. Now that the cost of manufacturing such devices has dropped, companies like Harris Semiconductor, SGS-Thomson, and Veridicom (a spin-off of Lucent Technologies) are planning to release IC-based fingerprint sensors throughout 1998.

Most of the new sensor chips are smaller than a stamp and based on a mixed-signal design, CMOS technology, and high-quality 3-D imaging, with some variation in technology from vendor to vendor. Due to the small size of the devices, all of the vendors are working on "all-digital" interfaces for their products.

Essentially, sensor chips scan visual images of the fingerprint and measure the unique "ridges and valleys" of each user. ST New Ventures Group's TouchChip and Veridicom use capacitive arrays, where two metal plates are placed in the cell area, separated by a passivation oxide. The skin surface of a finger acts as the third plate of the capacitor, which is separated by a dielectric layer. The sensors convert the distance between the finger and the device surface into an electrical signal. The software bundled with the chips reconstructs the fingerprint, searches for unique features, and uses special algorithms to match the print to a stored sample of a particular user. Because the chips rely on 3-D contours, they can't be fooled by photographic images.

Jim McGregor, director of marketing for ST New Ventures Group, says, "The TouchChip is a stand-alone sensor, and it's small enough to fit into a smart-card, keyboard, notebook, or cell phone. Its use for network access is of particular interest to many companies now." The TouchChip is slated to ship in late 1998.

Veridicom's sensor, scheduled to ship in the summer of '98, is based on 0.5-micron CMOS technology and uses a 300x300-pixel array. It produces images at 500 dpi, which meets the FBI's requirement for fingerprint-recognition devices. Veridicom has also developed a special coating that makes it suitable for any portable electronic device.

Mitsubishi has developed a system that can be used over the Web to prevent unauthorized access to networks or sensitive information. Mitsubishi's system uses a small fingerprint reader attached to a PC and a special software plug-in for Netscape Communications Corp.'s Navigator. Fingerprints of authorized users are encrypted and stored on a fingerprint-authentication server, along with details about what documents or areas users are allowed to access.

The system performs the authentication online using a Java-based software agent downloaded from the server. The system should be available by March 1999, and the company is working on a plug-in for Microsoft Explorer.

MasterCard is one of the first companies to implement a fingerprint security system for identifying card holders during transactions, and plans to extend the program to monitor employee access to the company's PCs and networks. ▼

New Products

3Com Fast EtherLink XL 10/100

3Com Corp. has released the Fast EtherLink XL 10/100 NIC. This NIC touts a 17 percent efficiency increase in throughput and CPU utilization, and as part of 3Com's Managed PC solution, works with Parallel Tasking II technology.

Where previous PCI chip sets took 24 bus-master cycles to transmit one packet, Parallel Tasking II performance bursts a full packet across the PCI bus in one cycle, eliminating bottlenecks. This promises to improve network response for data-intensive networking applications such as multimedia, imaging, and virtual private networks.

The price is $94 per NIC, in packs of 100. For more information, check out *www.3com.com.*

Enterprise Access Toolkit

GTE Cybertrust Solution's Enterprise Access Toolkit is a secure means of access to corporate data using digital certificates. The toolkit includes the Enterprise Access Manager, a Web-based administrative tool for setting and changing policies regarding security and access to corporate information, and the Enterprise Access Enforcer, a Web-server plug-in module that enables or blocks access set by policy. The Enforcer supports digital-certificate technology by allowing access to holders of valid certificates.

The Enterprise Access Toolkit supports all x509-compatible digital certificates and runs on Microsoft Internet Explorer 4.0 and Netscape Navigator 3.0 browsers, as well as the Netscape Enterprise Server.

Version 1.1 of the toolkit is priced at $4,600.

OneBox Networks ON-516A

OneBox Networks has introduced the newest member of its switching family, the ON-516A, configured with 16 Fast Ethernet connections that can send information across a corporate network at 100Mbps. The system can be equipped with an uplink option to connect network users to a WAN connector, based on Asynchronous Transfer Mode (ATM) technology.

The OneBox ON-516A extranet switch is designed to provide a smooth transfer between legacy networks based on Ethernet and high-speed ATM networks. In addition, the switches can be managed through a Java-based Web browser. Management features also support the creation of virtual local-area networks.

Prices start at $9,750. For more information, go to *www.oneboxnetworks.com.*

IBM Netfinity 3500

Taking aim at small to medium-size businesses, IBM Corp. has released the Netfinity 3500 server, which is capable of supporting from three to 200 Lotus Domino users. Designed to expand with your business, memory ranges from 32MB to 512MB, and internal disk storage goes up to 22.7GB.

The Netfinity is optimized for enterprises running data-intensive applications, including Web-server, online transaction processing, database, and GroupWare applications. It's tuned for fast throughput with integrated Ultra Wide SCSI and a 10/100Mbps PCI Ethernet controller interface.

IBM is also deploying SWAT teams for Netfinity product support, which suggests future use for our armed forces.

The Netfinity is priced at $2,365. For more information, check out *www.ibm.com.*

SECTION CONTINUES ON PAGE 298

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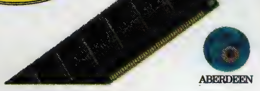

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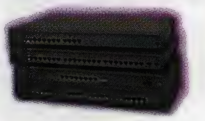

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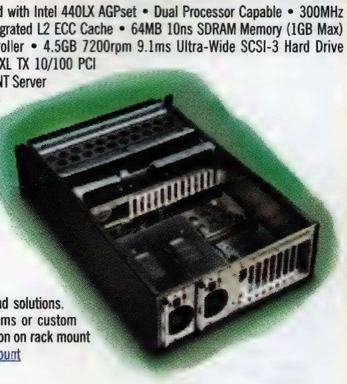

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Net WATCH

By Steve Rigney

Why LAN-based PBXs Can Become a Teleconnect Worker's Worst Nightmare

I know some network administrators who can't properly pronounce the word "telephony," much less get it to work on their LANs. In most cases, businesses use one company to handle their office telephones and another to work on their PC network. The teleconnect folks don't know PC networking, and most network administrators don't know a lot about the telephone system.

So while some managers are embracing computer telephony integration (CTI), most small networks do not have phones connected to it. However, several new products directed at LAN administrators can make installing a LAN private branch exchange (PBX) a manageable task.

Hello, Out There

There are now products on the market that allow you to use your existing LAN components, such as Fast Ethernet, Asynchronous Transfer Mode (ATM), TCP/IP, network adapters, and file servers, to send both voice and data over the network. While this is good for administrators, it is bad for the teleconnect workers who have experience only with proprietary PBX systems.

LAN PBXs come in many different shapes and sizes. Some of the oldest ones, such as those from Vienna Systems Corp. and Micom Communications Corp., use proprietary hardware and software to send voice over a TCP/IP-based network. However, the two companies take different approaches. For example, Vienna requires you to use a Solaris-based server and special software or a hardware device on all of your client PCs. The Vienna solution allows you to send voice over both your LAN and WAN using TCP/IP.

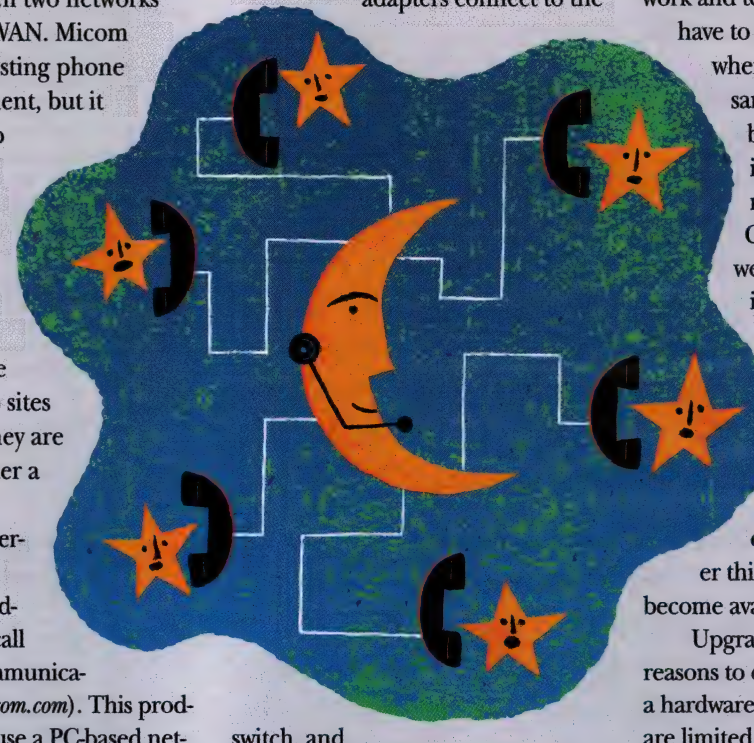
Micom is designed to send voice calls between two networks connected via a WAN. Micom also uses your existing phone lines and equipment, but it is not designed to send voice calls across a local network. Both of these products are a great solution for making free long-distance calls between two sites on a WAN, but they are not what I consider a true LAN PBX.

The most interesting LAN PBX I have seen is a product called Sphericall from Sphere Communications (*www.spherecom.com*). This product allows you to use a PC-based network to perform all the tasks of a full-featured PBX device. The Sphericall product uses several different components to provide this functionality. The first and main component is the Sphericall software running on a Windows NT server. The server also needs a Sphericall adapter that can handle from four to 16 analog phone lines depending on the model. Note that you can add several adapters in a single server, but because each adapter uses Direct Memory Access (DMA) and an interrupt, you will eventually run out of resources after about three cards.

The Sphericall product requires an ATM network that includes an ATM switch to send the voice calls across the wire. At about $300 each, ATM adapters are expensive, but they provide quality of service (QoS), unlike Gigabit Ethernet. So if you don't already have this setup, you'll need to invest in an ATM network and switch, which can easily cost $7,000 depending on the number of ports you buy. However, the quality of the calls is worth the extra money.

Three Configurations

You can set up your Sphericall PBX using three different configurations. The first configuration is simple and uses special phone cards and ATM adapters in the client PCs. The ATM adapters connect to the switch, and the phone cards attach to a dumb analog phone on your desk. The second configuration requires a piece of hardware called the PhoneHub, which uses one port on your ATM switch and provides 16 RJ-11 analog phone jacks. You simply plug any phone into the PhoneHub jacks, and you have instant access to the LAN PBX. This configuration doesn't require a PC connected to or anywhere near the phone.



The third configuration is similar to the second one, but it also allows you to load special software on a standard PC to communicate with the LAN PBX and perform tasks, such as seeing who is on the line, who called last, and a host of other features. Unlike the first configuration, which requires a PC with an ATM adapter, the third configuration will communicate over standard Ethernet—as long as the Ethernet network is connected to your ATM LAN. You can use any dumb analog phone you want with all three of these configurations.

Though the Sphericall/ATM combination is not cheap, chances are it will cost no more than a PBX. Because you can use any analog phone, you can save a lot of money on phones and use any model or style you want. Likewise, you can use the same cable for both your PC network and telephones, and you don't have to install dual jacks everywhere. You also get all of the same features as a hardware-based PBX system, including call forwarding, voice mail, conferencing, and Caller ID. You also get a well-designed graphical interface for controlling and monitoring calls, which you don't have with a hardware-based solution. Sphericall complies with the Microsoft TAPI specification, so you can add other third-party solutions as they become available.

Upgrades and scalability are also reasons to consider Sphericall. With a hardware-based PBX system, you are limited in the number of phones and the amount and length of voice-mail messages the system can handle. With a LAN-based system, you can simply add more adapters, disk space, or even another server without throwing away your current server.

If you need a good PBX or your old one is nearing the end of its life, you should consider a LAN-based solution. However, if you recently bought a phone system, and it is working for you, I wouldn't replace it with a LAN PBX just because the technology sounds cool. ▼

SECTION CONTINUES ON PAGE 302

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Internet2

A LEARNING EXPERIENCE

By Don Krueger

With the promise of access and transfer rates of up to 1,000 times what is possible with the Internet today, the Internet2 (I2) project is deserving of the attention it has received. But if you are part of the general population, don't expect to be cruising at lightning speed anytime soon. Internet2 is currently confined to academia, government research centers, and nonprofit organizations.

This division of usage has caused some confusion in the industry, but it is essentially the same way the original Internet got its start: It is a closed network. The most significant point to clarify about Internet2 is that it is not intended to replace the current Internet. Nor is it an entirely "separate" network. Internet2 is a TCP/IP-based network with enhanced nodes, known as gigaPOPs, and special advanced networking features that we'll discuss later.

Internet2 utilizes existing networks, such as the National Science Foundation (NSF) and MCI Communication Corp.'s Very High-Speed Backbone Network Service (vBNS), and will eventually employ other high-speed networks to connect members to each other and to the outside world. Part of the mission is to ensure that all future developments in hardware and software are based on open standards and that the new technologies are readily available to commercial network users and Internet service providers.

> The Internet2 project is well under way, but it may be 2002 before consumers get to experience advanced networking applications and speed.

Who's In?

One of the most promising aspects of the Internet2 project is the unique partnership that has formed among industry corporations, universities, and the government through its Next Generation Internet (NGI), first discussed in President Bill Clinton's State of the Union Address, given in early February 1997. The initiative is meant to spur a high-speed network with information flowing a million times faster than what today's home modems can handle, and 1,000 times faster than a corporate T1 connection—all by 2002.

Federal agencies involved in the project include the National Aeronautics and Space Administration's (NASA's) Ames Research Center, the National Science Foundation, the Defense Advanced Research Projects Agency (DARPA), the Department of Energy, the National Institutes of Health, and the National Institute of Standards and Technology (NIST).

Several nonprofit organizations have joined the project as well, including MCNC, the National Center for Supercomputing Applications, Northwest Academic Computing Consortium, NYSERNET, OARnet, SURA, PeachNet, Merit, CiCNet, and the State University System of Florida. The hope is that these institutions will provide a valuable viewpoint on how to more easily migrate the new technologies to commercial networks.

The involvement of business is crucial to the project's success. By working with university researchers on advanced technology, organizations from the corporate world will encourage the development of commercial applications and solutions to mainstream Internet problems.

To date, 25 companies, including

Advanced Applications

One of the main goals of the Internet2 project is to push the envelope for application development across the network even further, with a focus on data sharing. Here is a sampling of some of the work being done by the Internet2 Applications Working Group.

Learningware

Internet2, through the proposed Instructional Management System (IMS), provides a unique platform for the delivery of "learningware" in a "distributed instruction environment." In essence, students can learn anytime, anywhere, and teachers will have easy access to a broad range of instructional materials.

IMS is made up of a set of protocols, special middleware—created for use in a high-bandwidth, low-latency environment—and client tools. Creating networked content for learning, for example, will be much easier if generic, cross-platform "building blocks" and protocols are in place.

Researchers are looking at object-oriented development tools and distributed object architectures, such as DSOM, Java, ActiveX, and OpenDoc, as the foundation for these building blocks. These technologies can help address problems such as authentication, authorization, and security and extend the functionalities of applications over the network.

Under the IMS, students can experience real-time data collection and analysis. They will have access to data-sampling tools that utilize new data protocols, intelligent plotting windows with scaling features, and tools that can forward sampled data to a plotting window. To complete this vision, the developers need to incorporate 2-D and 3-D graphing templates, mathematical modeling templates, symbolic computation, a mathematical scripting language, molecular modeling templates, intelligent periodic tables and atom-bonding tools, tools for synchronizing temporal data such as music, and bilingual lexical databases.

The IMS standards will also allow tracking of student progress, automated integration of modules into broader frameworks, collaborative interaction, and flow between modules. According to the Internet2 Applications Working Group, "The new standards act as a

Ameritech, Digital Equipment Corp., MCI, AT&T, Sprint, Sun Microsystems, 3Com Corp., IBM, and Cisco Systems, have agreed to provide hardware and software services for the project and to contribute $10,000 annually to the project. Microsoft Corp. is conducting talks with the project leaders, and Cisco Systems and 3Com are helping to design the advanced switches and routers for the high-broadband network. IBM will contribute $3.5 million in grants.

To better organize the participating universities, Douglas E. Van Houweling, one of the creators of the original Internet, helped spearhead the nonprofit organization known as the University Corporation for Advanced Internet Development (UCAID). UCAID is made up of 117 universities, each of which contributes $500,000 to $1 million per year toward upgrading campus connections and developing advanced applications for Internet2.

lim r→0 3/π 2πr - L(r) / r³,
- L(r)

High-Tech Highway

Offloading academic and research-oriented traffic from the commercial Internet will certainly speed up data transmissions for both Internet and Internet2 users. But in addition to providing a much faster pipe, Internet2 applications will be built using a new set of networking tools—tools that will arise out of the experimental work of the project itself.

Quality-of-service guarantees are among the most critical tools. Right now, all data is given equal priority as it moves along the network. Quality of service sets priority levels for information that is sent out, thereby increasing the speed of all transfers.

The development of bleeding-edge applications is another major goal of the I2 project, and the supporting network technology will be developed as the new applications arrive. Initial efforts will exploit the broadband networks' media integration, interactivity, and real-time collaboration. Applications that enhance researcher collaboration when conducting experiments and an enhanced delivery system for services such as health care, using the "virtual-proximity" communications architecture, are in the works. The creation of middleware and development tools that support these advanced applications is under way as well.

The project will be conducted in phases over the next three to five years, in line as much as possible with the NGI. In the first phase, end-to-end broadband network services will be established for the participants. Simultaneously, teams of university faculty, researchers, technical personnel, and industry experts will begin designing the advanced applications. By early 1999, there should be numerous beta versions of applications in use on Internet2.

Conceptual Architecture

The architecture for Internet2 is a work in progress. The Internet2 Working Group strongly states that so far, the architecture for creating applications is based on concepts that act as guidelines for the architecture; they are merely a starting point for the project. The architecture will likely follow a model in which the client side relies on components for construction, while middleware that uses operating-system functionality will communicate to application and network services

(continued on page 306)

common mechanism for organization and retrieval of instructional objects by reflecting the relationship of individual instructional modules to specific learning objectives." This is not currently possible on today's Internet.

Digital Libraries and Information Visualization

Very high bandwidth and bandwidth reservation will allow materials such as continuous digital video and audio to move from research use (the Carnegie-Mellon University Digital Library Project, for example) to much broader use and include images, audio, and video in a way currently not possible.

Although most of today's available information and interfaces are textual by nature, a significant amount of research on information visualization is in the works right now, notably in organizations such as Xerox PARC. This research promises to help users organize, navigate, and comprehend large complex information spaces—visually. This technology relies on complex high-resolution graphics and animation to provide visual representations of textual information. The Applications Working Group says that this works "in much the same way that supercomputer-based visualization has helped scientists over the past decade to gain new insights into large numeric data sets and simulation outputs."

Tele-Immersion

The creation of "public shared sensor telemetry" leads to another major Internet2 application: tele-immersion. Stemming from "cave" technology such as multiuser-domain (MUD) and object-oriented-MUD (MOO) environments, tele-immersion will combine "advanced high-speed telecommunications systems to support collaboration applications and significant extensions to cave technology to recognize the presence and movement of individuals within a cave."

A tele-immersion system allows individuals at various locations to share a single virtual environment, which has incredible implications for educational, scientific, and manufacturing paradigms. For example, individuals at different locations could share and manipulate data, and jointly experience simulations and explore models of molecular, physical, or economic constructs.

Without high-speed networking and advanced protocols such as RSVP and Multicast, the potential of tele-immersion applications will never be realized.

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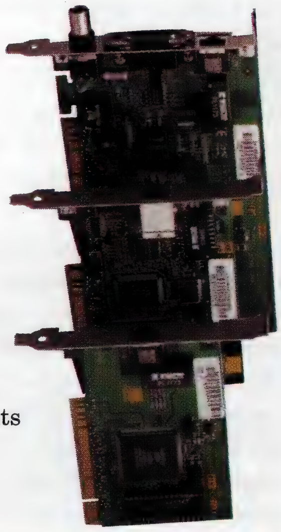

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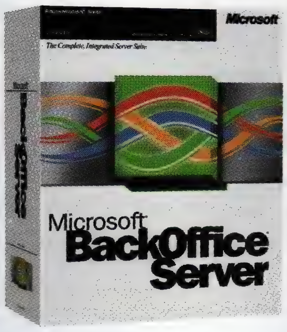

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Version upgrade, CD	$787.73	CDW 103493
Competitive upgrade, CD	$1825.68	CDW 103494
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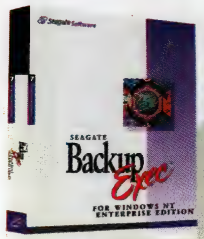

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Backup Exec is the system of choice for high performance, reliable Windows NT data protection, and the most comprehensive solution for 100% BackOffice compatibility. As the first backup solution designed for Windows NT, Backup Exec incorporates the Windows NT APIs for superior 32-bit performance and ease-of-use.

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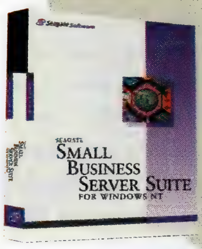

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For Windows NT V7.0

Full integration, power and 100% compatibility combine to make Seagate Backup Exec Small Business Server Suite* one of the most advanced management tools for complete data protection. Backup, data restoration, virus protection and disaster recovery automatically work together to completely protect your server and your business.

Version upgrade	$239.38	CDW 108303
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*Requires Microsoft BackOffice Small Business Server operating system

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The Internet and new applications are placing unparalleled demands on your servers. Your challenge: find an affordable workgroup server that not only powers your applications today, but anticipates your needs for tomorrow. At a price you won't believe for next-generation technology, the Compaq ProLiant 800 and 850R Series unlock ideal workgroup performance. And with Compaq manageability and reliability, these servers will consistently save you time and money down the road.

ProLiant 800 and 850R Series

CPU	RAM	Hard drive	CD-ROM	Ethernet	Price	CDW
200MHz Pentium Pro	32MB	–	8X	10BASE-T	$2159.00	81759
200MHz Pentium Pro	32MB	4.3GB	8X	10BASE-T	$2825.00	81760
200MHz Pentium Pro*	32MB	32MB	8X	10/100	$3068.00	89061
200MHz Pentium Pro**	32MB	32MB	8X	10/100	$3295.00	96899

*Rack model **Hot plug rack model

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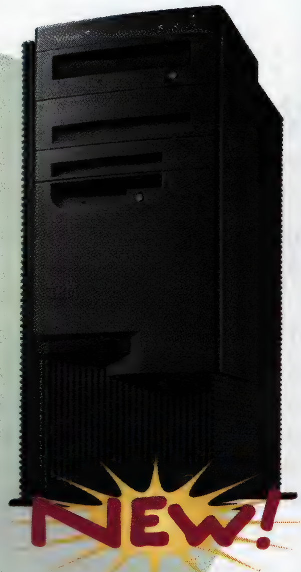

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IBM Netfinity 3500 Series reflects IBM's continuing commitment to small businesses and company departments. Intel Pentium® II processors provide the power required for high performance file and print serving, while Netfinity Manager lowers the total cost of ownership by offering features like asset and capacity management. Netfinity 3500 also plans your business for future growth by offering 2-way Symmetrical Multiprocessing (SMP) and a maximum of 22GB of internal storage capacity.

IBM Netfinity 3500 Series

CPU	RAM	Hard drive	CD-ROM	Price	CDW
233MHz Pentium II	32MB ECC	OPEN	24X	$2297.36	106991
266MHz Pentium II	64MB ECC	OPEN	24X	$2797.85	106993
266MHz Pentium II	64MB ECC	4.3GB	24X	$3185.78	106994
333MHz Pentium II	64MB ECC	OPEN	24X	$3336.27	106995

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Intel InBusiness Internet Station	$375.10	CDW 104701

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The BellStor family of single drive subsystems from Quantum provide up to 9.1GB of formatted capacity. For enhanced reliability, the Quantum Fireball SE, Atlas II and Viking use an advanced Reed Solomon implementation to detect and correct double-burst errors on the fly.

Quantum External SCSI Hard Drives From BellStor

Model	Capacity	Interface	Transfer Rate	Data Buffer	Price	CDW
Fireball SE	2.1GB	Ultra SCSI	20MBps	128KB	$309.93	109217
Viking	2.2GB	Ultra SCSI	20MBps	512KB	$338.27	109237
Viking	2.2GB	Ultra SCSI-3	40MBps	512KB	$369.23	109238
Fireball SE	3.2GB	Ultra SCSI	20MBps	128KB	$339.91	109222
Fireball SE	4.3GB	Ultra SCSI	20MBps	128KB	$394.66	109226
Viking	4.5GB	Ultra SCSI	20MBps	512KB	$459.98	109239
Viking	4.5GB	Ultra SCSI-3	40MBps	512KB	$497.90	109240
Atlas II	4.5GB	Ultra SCSI	20MBps	512KB	$609.93	109241
Atlas II	4.5GB	Ultra SCSI-3	40MBps	512KB	$646.41	109242
Fireball SE	6.4GB	Ultra SCSI	20MBps	128KB	$487.76	109228
Fireball SE	8.4GB	Ultra SCSI	20MBps	128KB	$599.68	109230
Atlas II	9.1GB	Ultra SCSI	20MBps	1,024KB	$935.35	109243
Atlas II	9.1GB	Ultra SCSI-3	40MBps	1,024KB	$969.70	109244

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(continued from page 303)

over the network. The server-side employs an "n-tier" model in which multiple servers may be applied to a single application.

The model for Internet2 addresses several points. The first is to make components, such as objects, modules, and other interoperable software parts, "integrable," which means that they can work together or separately depending on the action. Component classes for authentication, authorization, validation services, directory services, presentation services, and simulation parts should arise. And because real-time collaboration is a central focus of the project, new services allowing the "run-time brokerage" of access to components, objects, and information resources will be added.

The support for compound documents will be built into a new framework, as well as into the Web. Content can be placed with more flexibility, objects can be embedded, and passive/active information elements will be accommodated. Services for information resource metadata will be added as a data repository so that all researchers from each gigaPOP can access the same information. To facilitate this new functionality, the Internet2 group will continually work to standardize APIs for various forms of application support and service.

At the network service level, negotiation capabilities will be integrated so that application components can negotiate for services such as increased bandwidth, quality-of-service guarantees, or latency levels. And to accommodate network-wide testing, benchmarking and other metrics will be created and deployed.

> **Because REAL-TIME COLLABORATION is a central focus of the project, "RUNTIME BROKERAGE" of access to information resources will be integrated.**

Quality of Service

As noted, the Internet lacks quality-of-service guarantees. It is a crucial piece to making Internet2 flow without the same bottlenecks that occur on the Internet. Quality-of-service guarantees allow applications to request a specific amount of bandwidth (or priority). For example, this allows two computers running an application such as tele-immersion to communicate at the high speeds required for real-time interaction. At the same time, a less network-intensive action like searching the Web would use only the connection speed necessary for it to operate without kinks. This feature alone can boost the network's speed significantly and enable the advanced applications under design.

Newbridge Networks, for example, is a strong proponent of making this a standard technology. The Newbridge MainStreetXpress management suite offers sophisticated solutions for advanced private-line, frame-relay, X.25, and cell-relay services, which are being extended to IP services. So far, Newbridge has donated $1 million in networking equipment and technology to the project.

GigaPOPs

The Internet2 group is working with IBM, MCI, and Cisco Systems to address the needs of system architects who are developing the advanced nodes or hubs, called gigaPOPs (giga, for billion bits per second, and POP, for point of presence). Essentially, gigaPOPs are the network aggregation points for the second-generation Internet. GigaPOPs can quickly connect the campuses, labs, and later, the urban-area and state/regional networks.

Internet2 engineers are attempting to deliver 622Mbps transmissions to three supercomputer centers (SCCs) running IP over an asynchronous-transfer-mode (ATM) network. GigaPOPs will deliver data at speeds of at least 155Mbps. (Current speeds top out at 45Mbps.) The existence of gigaPOPs eliminates redundant connections and allows for more efficient networking by providing a meeting point for both network service suppliers (such as the vBNS) and network users.

Currently, the hubs are located at MCNC in Research Triangle Park, N.C., and at Georgia Tech. These are the first gigaPOPs to be linked in the nation. Georgia Tech is completing an OC-3c (155Mbps) link to the vBNS POP in Austell, Ga.; it will share the gigaPOP with MCNC. The vBNS backbone links the supercomputing centers. The private connection between the two gigaPOPs operates at DS3 speed (45Mbps). Without the connections to SCCs, these giganets are merely high-speed LANs. They are the building blocks, but unless they are linked properly to enable the envisioned data-intensive research applications, they amount to nothing more than what is already in place.

The North Carolina gigaPOP giganet currently connects MCNC, Duke University, North Carolina State University, and the University of North Carolina-Chapel Hill. The connections operate at top speeds of 2.4Gbps (OC-48). The Georgia Tech gigaPOP will serve the entire Southeast region.

CaroNet, Time-Warner Cable, and WorldCom provide the network connections for these universities. The circuit between MCNC and Georgia Tech employs Cisco LS1010 ATM switches at each location, with each switch connected to Cisco 7505 routers.

The Cisco routers support native IP multicast protocol, protocol-independent multicast (PIM), and Resource Reservation Protocol (RSVP). Cisco Systems' Research Triangle Park facility, which is part of the North Carolina giganet, is also linked to these switches and routers.

Very vBNS

Internet2 relies on NSF and MCI's vBNS. So far, more than 50 institutions have received vBNS grants under the NSF's High Performance Connections program.

Launched in April 1995, the vBNS was designed as a high-bandwidth network for research applications. It is a nationwide network that operates at a speed of 622Mbps (OC12) using MCI's advanced switching and fiber-optic transmission technologies. According to MCI, when you reach a speed of 622Mbps, 322 copies of a 300-page book can be sent every seven seconds.

The vBNS can be considered the pulse of Internet2. Under a five-year project with MCI, the service links six NSF supercomputer centers that support "gigabit testbeds" for advanced networking research. Some of the work being done includes ATM/Sonet, the interfacing of ATM to the High Performance Parallel Interface (HiPPI) switches, and all-optical networking.

The vBNS offers high-speed data connectivity and high bandwidth to the institutions and gives remote users access to the high-performance SCCs. The network supports distributed processing, which allows users access to resources at two or more SCCs and creates what known as a "supercomputer meta-center." The vBNS also supports Internet videoconferencing and workgroup tools to aid in collaborative research.

In addition to offering a high-performance network service, the vBNS cooperative agreement should spawn a new breed of hardware, protocols, and transmission technologies and integrate them into the commercial network as they become available. To support the NSF's goal to continue development of high-performance networking, the agreement also encourages efforts to deploy advanced routing mechanisms, protocol enhancements, and new performance-measurement methods.

What's to Come?

As discussed, any advanced technologies or applications that arise out of the Internet2 project will be made available to all Internet users in three to five years—in line with the Clinton-Gore NGI.

It remains to be seen whether Internet2 can accomplish its goals and then merge its findings and advances with the commercial Internet in the time frame suggested. In the end, improved bandwidth and multimedia solutions that meet or exceed the goals of NGI may be realized—all by the year 2002 deadline. Only time will tell. If I2 flies, however, we may soon hear the buzzword Internet3. ▼

Dr Solomon's Anti-Virus For Microsoft Exchange

Protect your Microsoft Exchange server and workstations from catastrophic data infection.

By Daniel E. Levine

Today's LAN administrators are always on the hunt for a better way to protect their networks from viruses. If they have Microsoft Exchange, they may be able to let up on the search. Dr Solomon's Software's new Anti-Virus for Microsoft Exchange plugs directly into the Microsoft Exchange Server and protects organizations from viral attacks by automatically scanning all public folders, newsgroups, and e-mail messages.

The basic defense is the Anti-Virus Toolkit. Like most virus-protection applications, it checks files for a particular binary signature that identifies a viral infection. Dr Solomon's backs up this defense with signature updates sent directly to registered users on floppy disks each month. (The license entitles purchasers to one year's worth of free updates; after that, the price is 75 percent of the original purchase price per year.)

Dr Solomon's Anti-Virus for Microsoft Exchange

Dr Solomon's Software
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888-377-6566; 781-273-7400
Fax: 781-273-7474
www.drsolomon.com

Support: Live phone support, 24 hours daily

Requires: Server: 32MB RAM; 10MB hard drive space; Windows NT 3.51 (Service Pack 5) or Windows NT 4.0 (Service Pack 2); Microsoft Exchange Server 4.0 or later. Client: 4MB hard drive space; Windows 95 or Windows NT 4.0; Exchange Client 4.0 or Outlook 97

List Price: 10-user license, $495 (includes year of free updates)

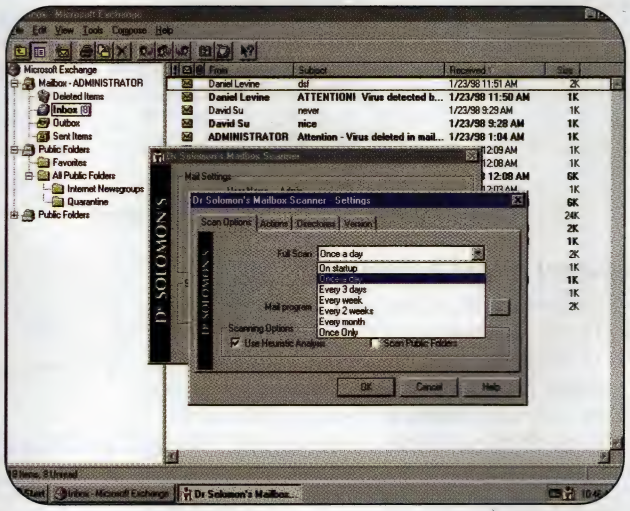
Unfortunately, this scheme doesn't protect you from new viruses that may appear between updates. To be ready for the unexpected, the product uses a technique known as heuristic analysis. The basic theory is that if it walks like a virus and talks like a virus, it probably is a virus. Files with virus-like qualities are treated the same as those with a known virus and are quarantined. Of course, heuristic analysis can trigger false alarms, but we encountered none after scanning literally hundreds of e-mail attachments during our testing.

The Anti-Virus Toolkit installed almost effortlessly on our Intergraph ISMP-610 running Windows NT 4.0 Server (Service Pack 3), Internet Information Server 3.0, and Microsoft Exchange Server 5.5. The only hitch is that users must manually make a small modification to the server's Exchange client. Sadly, the procedure is not well-documented in the Toolkit manual and can sully an almost seamless installation. Another paragraph of explanation in the documentation would save many users hours of frustration.

Once installed, a Dr Solomon icon appears in the Exchange Server Administrator; clicking on it opens the properties panel, where administrators can set parameters, enter custom messages, and examine the antivirus log file. Dr Solomon's default settings were sufficient for our purposes, and most administrators will not have to make any modifications. Whenever Exchange Server discovers a virus or a Word macro virus in a message, attachment, or public folder, the Anti-Virus Toolkit disinfects or deletes the file, places the offending document in a special "quarantine" folder, and fires off an e-mail to the Administrator. All these options can be customized in the properties panel.

For additional protection, an optional component called the Mailbox Scanner can be installed on client computers. This application provides antivirus scanning for remote users who replicate folders to their laptops, and for users on your network who keep personal folders not stored in the Exchange Server public folder. The Mailbox Scanner also works with services that are not administered by Exchange Server, such as POP3, CompuServe, Microsoft Network, or any other service that places its mail inside a Microsoft mailbox.

We tested the Mailbox Scanner with Microsoft's Exchange client and Outlook 97. The software worked flawlessly with Exchange, but had one irritating bug when run with Outlook 97. Whenever a new message comes into Outlook, the Mailbox Scanner checks it out and then pops up an additional, duplicate Outlook window. This might seem like a minor annoyance, but a user could return from lunch and discover that the 10 new e-mail messages that came during that hour opened 10 new windows and crashed the machine. The company is aware of the issue and expects to release an update by the time you read this review.



From	Subject	Received	Size
Daniel Levine	dsf	1/23/98 11:51 AM	2K
Daniel Levine	ATTENTION! Virus detected b...	1/23/98 11:50 AM	1K
David Su	never	1/23/98 9:29 AM	1K
David Su	nice	1/23/98 9:28 AM	1K
ADMINISTRATOR	Attention - Virus deleted in mail...	1/23/98 1:04 AM	1K

Dr Solomon's Mailbox Scanner - Settings

Full Scan: Once a day
- On startup
- Once a day
- Every 3 days
- Every week
- Every 2 weeks
- Every month
- Once Only

Scanning Options
☑ Use Heuristic Analysis
☐ Scan Public Folders

With Dr Solomon's Anti-Virus, all incoming and outgoing mail is scanned upon receipt or transmission; plus, clients can schedule scans for private and public folders.

Also, if you have a large set of folders—say a few thousand contacts and e-mail messages—you might want to go get a cup of coffee while the Mailbox Scanner examines your entire mailbox. A multiple-megabyte personal folder file can take quite a while to scan—especially if your computers and network are not exactly state-of-the-art. On our tests, we used a 171MB mailbox that includes more than 9,000 items, including contacts, e-mails, and calendar entries. Our 100MHz 486-based machine running Windows 95 with 32MB of memory took approximately 72 minutes to complete the scan. By comparison, a 200MHz Pentium PC running NT Workstation 4.0 with 64MB of memory took about 34 minutes. This result would have been even faster had it not been for the relative slowness of our 10BaseT network.

Unfortunately, Dr Solomon's has no automatic or centralized mechanism to update all of your enterprise's Mailbox Scanners with monthly updates. System administrators will have to install new virus definitions on each computer, or buy Dr Solomon's Management Edition, which includes such functionality. Dr Solomon's says it is working to fix this issue in a future release.

Sometimes viruses will slip into your system packed inside archive files. Both the client and server parts of Dr Solomon's peek inside popular Zip and Windows compressed files for viruses, but they didn't do too well with other popular compression and archive formats. On our tests, viruses lurking inside TAR archives and uuencoded and Unix compressed (Z) files slipped through the defenses. The same was true for Macintosh BINHEX, SIT, and SEA files. This will be a concern if your network contains a mixture of Unix and Macintosh clients, or if your organization is PC-based.

These issues aside, Dr Solomon's enjoys a sterling reputation and its engine can detect and disinfect the most common viruses. Even the flawed Mailbox Scanner cannot detract from the easy installation and management of the DSAVExchange server component, the heart of the product. If Dr Solomon's can fix the Mailbox Scanner's Outlook and administration, problems, it will have a first-class product on its hands. ▼

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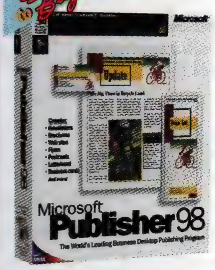

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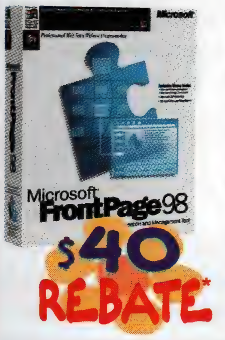

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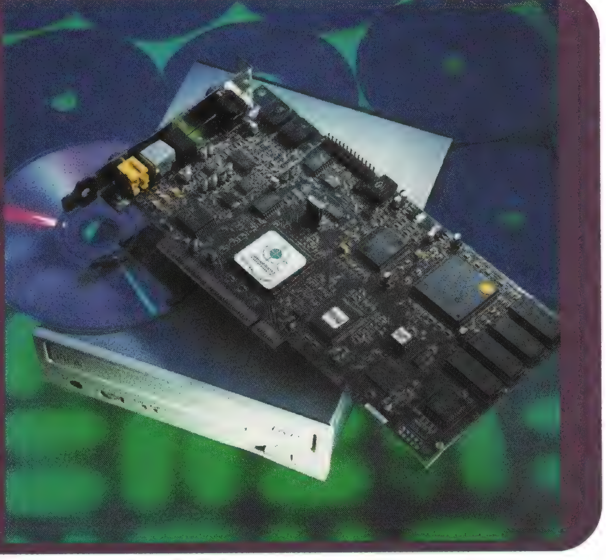

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DRIVE DVD TO YOUR DESKTOP

SHOPPING FOR A DVD-ROM UPGRADE KIT

BY DON LABRIOLA

YOU'VE HEARD THE HOOPLA: DVD will revolutionize desktop storage, DVDs will replace CDs, DVD is going to eat your VCR. But while DVD technology is finally here, it's still far from fulfilling those lofty projections.

Ongoing turmoil on the standard front is one reason why. A few major DVD specifications are fairly complete, but others remain plagued by copy-protection issues and challenges from rival formats, and in some cases the standard-setting DVD Forum is already working on radically different second-generation versions. (See the sidebar "State of the DVD Union.")

Nonetheless, DVD hardware is now shipping in quantity. After a protracted battle over copy-protection issues, set-top DVD-Video players are finally available, as are several hundred DVD-format feature films. And on the desktop, despite an initial scarcity of DVD software other than movies, vendors are building DVD-ROM drives into more and more desktop and even a few notebook PCs.

Dxr2
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Vibrant video and serious sound come together in one box. DVD-ROM upgrade kits like Creative Labs' PC-DVD Encore deliver DVD to your desktop.

PHOTOGRAPH BY VITTORIO SARTOR

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But DVD-ROM isn't limited to new systems. A generous selection of DVD-ROM kits now lets you upgrade a previous-generation multimedia desktop with relatively little fuss.

Most upgrade kits include a DVD-ROM drive, an MPEG-2/Dolby Digital decoder board, cabling, mounting hardware, and software. You can also buy drives and decoders separately, but mixing and matching components is no novice's task. For moving your PC to DVD today, an upgrade kit is the way to go.

The drives in today's kits can read DVD-Video discs, DVD-ROM titles, and—if you choose the right kit—virtually all CDs. But until all of DVD's formats stabilize—which probably won't happen this year—no drive can guarantee compatibility with all future formats.

Still, there are compelling reasons to upgrade your desktop to DVD now. Not only will a DVD-ROM drive let you take advantage of DVD software as it gathers steam, but the newest, fastest drives can read your CD collection as efficiently as most CD-ROM drives. This makes them excellent, forward-looking replacements for an aging or broken CD-ROM drive.

And though you likely won't want to watch DVD movies on your monitor, a kit with an appropriately equipped decoder can play movies to your TV—no need to buy a stand-alone DVD-Video player. That's especially appealing if you're casting your PC as the core of your home-entertainment center.

Best of all, today's DVD-ROM kits are falling in price. Some already sell for under $400, and the latest ones make impressive gains in ease of use, stability, and performance.

TALKIN' 'BOUT MY GENERATION

These gains seem all the more impressive partly because the first wave of DVD-ROM kits was so far from perfect. Tricky installations and conflicts with graphics cards, CD-ROM drives, and hard drives were common. Plus, while the drives bundled in these kits were okay for audio CDs and generic CD-ROMs, they couldn't read CD-Recordable (CD-R) or CD-Rewritable (CD-RW) media, nor CD-ROM/XA and Photo CD discs.

These early drives delivered sustained DVD throughput of about 1,350K/sec—roughly equivalent to a 9x CD-ROM drive—and CD playback that could be even slower. While their DVD performance was sufficient for movie playback, their CD performance was less than half that of a late-model CD-ROM drive—disappointing to anyone hoping to justify buying a DVD-ROM drive by also using it as a CD-ROM reader.

An improved family of DVD-ROM drives—usually dubbed "2x" or "second-generation" drives—is now shipping. However, be sure to check specs closely before buying, because many first-generation models are still on the market, selling both separately and in kits (usually the cheapest ones). Second-generation drives offer maximum DVD throughput of about 2,700K/sec, plus improved CD-reading speeds—now roughly equivalent to a 20x CD-ROM drive.

To read DVD's denser media, DVD-ROM drives incorporate a laser with variable lenses that can focus on either of a DVD disc's two possible data layers. (See the sidebar "Defining DVD.") Second-generation models have an additional, fixed-focal-length laser for reading CD-R and CD-RW media.

This dual-laser mechanism should ensure compatibility with all CD formats; look for the Optical Storage Technology Association (OSTA) MultiRead logo, which guarantees compatibility with CD-ROM, CD-Audio, CD-R, and CD-RW discs. In addition, the drive should support the ISO-9660, CD-ROM Modes 1/2, CD-ROM/XA, CD-I, Mixed Mode, Video CD, and CD Extra formats.

Only a few OEMs supply the drives that grace today's kits, but check the drive for several other key features. Caddyless loading mechanisms are the norm, either the ubiquitous retractable tray or a trayless, slot-loading design like that used in Pioneer New Media's DVD-102 drive. Look for face-mounted headphone jacks and volume controls. Also, insist on seek times under 200ms for playing DVD media and well under 150ms for CD playback.

THE DECODING RING

The second element of any DVD-ROM kit is its MPEG-2/Dolby Digital decoder board, which translates a DVD disc's compressed digital data into video and audio streams that can be routed to external A/V equipment.

These boards output VGA or NTSC video to a monitor or TV and produce line-level audio suitable for a sound card or outboard stereo amplifier. They also generate digital audio data that can be translated by a Dolby Digital module into six-channel home-theater Dolby Surround Sound. (The next round of decoders and some high-end sound cards should include built-in Dolby Digital processors, which will allow direct connections to Surround Sound speaker systems.)

DVD-ROM drives are capable of stunning output, but video and sound playback can be degraded by the decoder and the demands it places on your PC. Picture quality is hard to evaluate without auditioning a kit, so don't buy one from a vendor who doesn't offer a no-questions-asked money-back guarantee.

Before you buy, however, examine a kit's literature carefully, checking for critical parameters such as the decoder's maximum display resolution and refresh rate, and important features such as support for copy-protection schemes and the ability to drive a computer monitor and TV at the same time.

SHOPPER LIVE

Whether you're thinking about buying a DVD-ROM upgrade kit or just interested in the latest developments in DVD circles, join Matt Klare and industry guests in a forum discussion May 4-8 at *www.cshopper.com/discuss.html*.

You also might spot more exotic features, such as the line-doubling video-enhancement circuitry offered by Creative Labs' Dxr2 board (bundled with Creative's PC-DVD Encore drive), or the wireless capabilities of Hi-Val's DVD Home Entertainment System, which can beam DVD movies to a TV in a different room than your PC. Check whether the board requires a graphics card with DirectX support, hardware video acceleration, or specific audio or video connectors.

Good decoder boards offer a variety of video-output formats, including VGA-compliant RGB, NTSC composite, and S-Video. They should also output both analog and Dolby Digital-ready S/PDIF digital audio, and be able to mix audio input from both CD-ROM and DVD-ROM drives.

Virtually all decoders employ PCI bus-mastering architectures, but each uses any of three methods to input data from your graphics card and route output to display devices. A few use the PCI bus for both streams, firing uncompressed video output back to the graphics card over the bus. This simplifies card design and eliminates the need for external cabling, but it crowds the bus and saddles the graphics card with video-acceleration and -scaling tasks. As a result, these boards sometimes cause problems on systems with slower processors and older chip sets or graphics cards. So far, few decoders use this design, and those that do may offer it as only one of several interface options.

More common are analog overlay boards, such as Creative's Dxr2, which connect to your graphics card and monitor via external shielded cables. These cards create the fewest conflicts because they transfer only standard uncompressed VGA and NTSC video.

Analog overlay boards are good choices for systems with older processors—some even work with a 75MHz Pentium—because they free the graphics card and CPU from

STATE OF THE DVD UNION

Defining the various DVD formats has been an enormous task, and it's far from over. Here's the status at press time of each specification.

- **DVD-VIDEO:** The DVD Forum's DVD-Video standard—the basis for today's DVD movie discs—is being challenged by the controversial new Divx format, supported by retailer Circuit City and several leading movie studios. Promoted as a new way to rent movies—and as a possible future mechanism for music and software distribution—Divx DVDs will cost about $5 and allow unlimited playback for 48 hours. Viewers would then discard the disc or use a modem-equipped Divx player to buy more time. Today's DVD-ROM drives and set-top players won't play Divx media.
- **DVD-ROM:** Second-generation DVD-ROM drives have little trouble reading the various flavors of CDs, as well as DVD-Video discs and interactive DVD-ROM titles created exclusively for playback on a PC. But there's no guarantee that they'll be capable of reading any future DVD format that emerges.
- **DVD-RECORDABLE (DVD-R):** The DVD Forum's first DVD-R specification defines a write-once format storing 3.95GB of data per side, but two rival proposals define 4.7GB capacities. A universal standard isn't likely soon. Today's DVD-R drives cost well over $10,000, making them of interest only to DVD content creators.
- **DVD-RAM:** Rewritable DVD is caught in a catfight between the DVD Forum's announced 2.6GB-per-side DVD-RAM spec and at least three competing proposed formats, including a 3GB-per-side version, DVD+RW, backed by Sony and Philips. No resolution is in sight, and the forum is working to upgrade to its existing spec. Current DVD-ROM drives probably won't be able to read at least a few of the proposed formats. A number of DVD-RAM units are shipping, but shifting standards might give these early models short life spans.
- **DVD-AUDIO:** The DVD Forum recently announced a draft DVD-Audio spec defining discs that can hold up to 30 hours of six-channel sound. A final draft is expected later this year, but it could be derailed by a competing Sony/Philips proposal called Direct Stream Digital. Today's DVD-ROM equipment might lack the copy-protection circuitry needed to play DVD-Audio discs. ▼

video-processing tasks. Their main drawback is the slightly higher cost their design entails, requiring a video pass-through cable and onboard video-acceleration hardware. Such boards also can have trouble keeping up with very high refresh rates, so be sure that any board you're considering can handle your favorite video settings.

DEFINING DVD

Just as DVD technology is still in a state of flux, so is the acronym itself. DVD once stood for Digital Video Disc, but its capacity for a variety of data types spawned a name change to Digital Versatile Disc, and then several members of the DVD Forum announced that the acronym no longer stood for anything.

But whatever the letters stand for, you might be wondering why DVDs are supposed to be so much better than compact discs. Capacity is one reason: Today's single-sided, single-layered DVD discs can hold up to 4.7GB of data, more than seven times what a CD can. Plus, a DVD disc can be dual-sided and store two layers of data per side, so you can double that 4.7GB figure for a dual-sided, single-layer platter, and nearly double it again (17GB) for dual-sided, dual-layer discs.

Even a basic 4.7GB DVD disc can store 133 minutes of MPEG-2 compressed video, plenty for most games sold today and sufficient to hold most feature films. And with the right hardware, DVD picture quality easily surpasses that of CD-ROMs and Video CDs, producing full-screen, 30-frame-per-second output often judged better than that of a laser disc.

DVD-Video discs can hold up to eight sets of sound tracks, each in six-channel Dolby Digital Surround Sound, which offers better frequency response and more channels than the Dolby Pro Logic consumer-audio standard. Most also include copies of the sound track stored as stereo PCM digital audio and in the eight-channel MPEG-2 audio format favored in Europe.

In addition, developers can include karaoke or subtitled closed-caption tracks, multiple user-selectable camera angles for each shot, parental controls, and onscreen menus that let you navigate games or browse multimedia titles.

DVDs that contain general-release movies are protected (or hobbled, per your opinion) by DVD's Content Scrambling System, which prevents digital copying. Some also include analog protection schemes—such as the Copy Generation Management System or the proprietary Macrovision 7—that prevent recording to a VCR.

DVD-Video discs also incorporate regionalization coding, which prevents them from being played in areas of the world other than the ones in which they were sold. These mechanisms are currently limited to DVD-Video titles, but no DVD-ROM drive can play protected discs unless its decoder is equipped with the proper descrambling circuitry. ▼

The third decoder design, a digital inlay board, uses an internal bus—sometimes called the sideport bus—to transfer digital video between the decoder and the graphics card. If you own a late-model graphics card, this can be a simple, inexpensive solution—it eliminates external connections besides a standard monitor cable and doesn't burden the PCI bus.

However, it does require the graphics card to manage video scaling and filtering, which can sometimes cause hardware conflicts and make output quality dependent on your graphics card. Before buying an inlay card, ask the manufacturer how well it will work with your particular graphics card and CPU. At press time, the only digital inlay boards on the market were OEM models. Watch for them in kits as the year progresses.

A final decoding option—software decoding—does away with a board altogether. OEM products from companies such as Mediamatics and Zoran Corp. allow vendors to replace costly boards with inexpensive software. However, picture quality on software-decoded systems depends fully on your CPU and graphics card. Even with a 266MHz Pentium II system, an MPEG-2 video stream can consume nearly 100 percent of CPU resources—a major hurdle to multitasking. No software-based upgrade kits had been announced by press time, but their appearance seems inevitable as over-300MHz desktops proliferate.

THE SOFT MACHINE

A key part of every kit is its navigation software. Better packages let you access all the interface features built into the DVD specification, including onscreen picture tuning; interactive menus; parental controls; playback functions such as pause and slow motion; and the ability to choose camera angles, languages, aspect ratios, and subtitles.

Early navigation packages used Windows 95's Media Control Interface (MCI) API, which provided only limited DVD functionality. This forced vendors to develop proprietary extensions to support MPEG-2, Dolby Digital, and many DVD navigation features. Microsoft Corp.'s newer DirectShow API (formerly called ActiveMovie) includes full DVD support, but it didn't ship to OEMs until late last year. Because MCI won't be upgraded to handle future DVD specs, make sure any kit you buy includes DirectShow-compliant software.

As for bundled applications, always choose quality over quantity—a major movie release and a popular game are far more worthwhile than a handful of sample clips and shovelware titles. Give extra points to releases designed expressly for DVD, rather than titles simply ported from CD-ROMs (albeit on fewer discs).

PLUG AND HOPE

Installing a DVD-ROM kit is easier than it used to be, but even plug-and-play units can suffer from all the resource-allocation problems you'd expect from any device that consumes multiple interrupts, base memory addresses, and I/O port addresses.

Current kits include internal EIDE (ATAPI) drives that require a maze of data, audio, and power connections; at press time, no kits using SCSI DVD-ROM drives had yet been announced. The decoder board invariably requires an open PCI slot.

Note that to install some kits, you'll need a working CD-ROM drive—some provide installation software only on CD-ROM discs. If you're installing the DVD-ROM drive to replace a broken CD-ROM drive, or don't have enough IDE connectors to attach both drives simultaneously, make sure the kit provides drivers on floppy disks.

Also be warned that Windows 95's uninstall routines don't always remove all traces of DVD drivers. During our hands-on testing, installing several kits in succession on the same PC sometimes produced driver conflicts, despite our efforts to eliminate one product's software before installing the next. If you install a kit, find it unsatisfactory, and return it to the vendor, the next kit you install might conflict with the previous one's legacy drivers.

CARROTS AND CAVEATS

Today's market for DVD-ROM kits is truly double-edged. DVD-ROM kits can deliver, at a relatively low cost, great-looking video playback for your PC as well as your living-room entertainment center. They're also an investment in the future—you'll be able to take advantage of DVD-ROM software as releases keep coming, although today's drive might be incapable of reading some DVD formats down the road.

But if you can stand a little early-adopter risk, doing your homework before buying will let you join the DVD revolution as it starts speeding up. ▼

DVD-ROM KIT CONTACTS

Company	Phone
Creative Labs	800-998-5227
Diamond Multimedia Systems	800-468-5846
DynaTek Automation Systems	800-461-0052
Hi-Val	888-383-4482
Jazz Multimedia	888-568-3676
NewCom	818-597-3200
Pacific Digital Corp.	888-333-6732
Philips Professional Solutions	800-235-7373
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SHOOTING STARS

It takes a sharp eye to find the perfect digital camera.

Snapshot photography was not always child's play—19th-century photographers had to tote wagonloads of chemicals to capture only stock-still subjects. But for at least the past few decades, picture taking has been as simple as point, squint, and click.

So what's the allure of digital cameras? Sure, taking a snapshot is just as easy, but after that, chores you once passed to the clerk behind the drugstore counter are now in your hands. You move the images from camera to computer. You manipulate the pictures on the PC. You print them out on paper.

But those responsibilities—coupled with a do-it-yourself desire—are precisely the appeal of digital cameras. A digital camera puts you in control of not just the picture-taking process, but the final photograph. A digital image can be tweaked, twisted, and turned into something gorgeous onscreen before being committed to photographic paper. You can add more special effects than George Lucas or manipulate reality more thoroughly than a weekly tabloid editor.

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BY GREGG KEIZER

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FUJIFILM DX-5
DIGITAL CAMERA
Kodak DC210
NORMAL
Canon
PowerShot
6mm F2.8

These three VGA-resolution cameras cost less than $700 apiece. Nikon's Coolpix 300 has a built-in sound recorder, Panasonic's compact PalmCam PV-DC1080 has a 2x zoom, and Ricoh's RDC-300Z has a 3x zoom.

That's not the only thing driving digital cameras out the doors of direct dealers and into PC-equipped offices and homes. Plummeting prices for both cameras and high-quality color printers are factors, too. So is the voracious appetite for images for the World Wide Web. And smaller, more feature-rich, more affordable cameras with better image quality are the best attractions of all.

The result? The beginnings of a big-time shift in photography, one far larger than Polaroid's popularization of instant photography, and ultimately a change that will rival the move from the wet-process, glass-based film of the 19th century to the 35mm celluloid-in-a-canister packaged by Fuji and Kodak today.

For the moment, digital cameras are still closer to computer peripherals than to the world of conventional photography. Most don't yet "develop" images sufficiently to send them directly to a printer, though some camera makers, such as Olympus Image Systems and Sony Electronics, are pushing in that direction. To use a digital camera today, you need a PC.

You also need a good grounding in what to look for. For the full picture on buying a digital camera, frame your viewfinder on these pages.

PIXEL-PERFECT RESOLUTION

Like other computer products, digital cameras are frequently discussed in terms of numbers. When it comes to cameras, the most important figures are related to image resolution. But you shouldn't compare and choose among cameras by resolution alone.

How you intend to use your digital photos should play a major part in your shopping decision, too. If you're snapping shots to post on the Web, for instance, your resolution needs are decidedly different than if you're dropping them into a glossy catalog, and different still if you're putting prints on paper with the family inkjet printer.

Unlike scanner resolutions, camera resolutions are not expressed in dots per inch (dpi), but in screen-resolution-style numbers that define the dimensions in pixels of the most detailed image a camera can capture—640x480 pixels, for example, or 1,152x864. As with monitors, the first number cited is the horizontal measurement in pixels; the second is the vertical.

Most digital cameras capture scenes using the same technology embedded in scanners and video camcorders—a charge-coupled device (CCD) array. A CCD is an aggregate of individual sensors, one for each pixel of resolution. As light strikes each sensor, its intensity and color are measured and translated into numerical values. In effect, the CCD takes on some of the roles traditionally filled by film in a conventional 35mm camera. A few consumer cameras use an alternative recognition technology, complementary metal-oxide semiconductor (CMOS). (See the sidebar "CCD Challengers: CMOS Cameras.")

The number of sensing elements in the CCD determines the camera's resolution. The greater the number, the more detailed the image you get—at least until you start enlarging the image. Zoom in on any digital-camera picture, and you'll quickly start to see individual pixels as squares, with object edges formed of jagged rather than smooth lines. This phenomenon, called pixelization, has nasty side effects such as lost detail (enlarging the pixels makes much of the image, particularly the background, appear out of focus) and blotchy colors.

That's why resolution is the No.1 figure to keep in mind. Another numerical specification, a camera's color bit depth, is more or less moot for most buyers, because all cameras can capture in at least 24-bit color.

The higher the resolution of a digital camera, the larger its photographs can be printed before pixelization degrades quality beyond usability. There's no hard and fast rule for determining a camera's limits, but a good guideline is that 640x480-pixel images shouldn't be pushed beyond 3x5-inch final print size, and megapixel prints (prints taken by cameras that capture approximately a million pixels in each image, as 1,153x864 models do) should top out at 5x7 inches.

The most common camera reso-

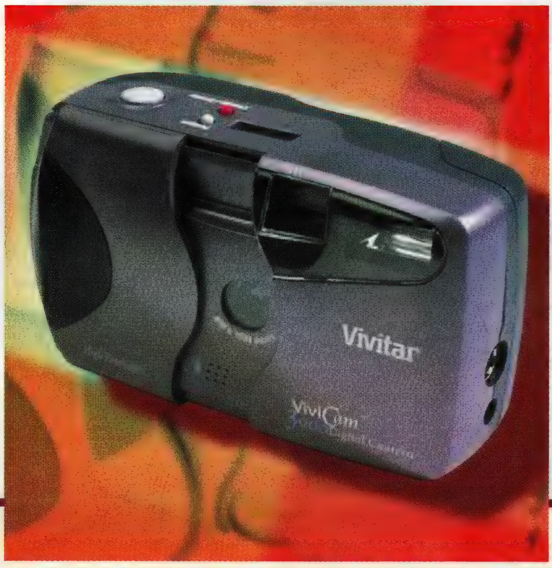
CCD Challengers: CMOS Cameras

Most digital cameras use charge-coupled device (CCD) technology to capture images. CCD arrays are proven, relatively reliable image grabbers, but they also require considerable electricity. That's not a problem for CCD-based scanners, which draw power from wall outlets, but it certainly hampers battery-operated digital cameras.

One alternative being used by a handful of consumer-priced digital cameras—including Toshiba America Information Systems' PDR-2 and Vivitar Corp.'s ViviCam 3000—is a complementary metal-oxide semiconductor (CMOS) active pixel sensor array that draws on the same CMOS technology as many CPU and memory chips. Not only do image sensors based on CMOS chips draw less power than CCDs, they're cheaper to manufacture.

Also, CMOS chips can be assigned tasks other than image sampling. It's possible, for instance, for CMOS chips to handle white balancing and analog-to-digital conversion—chores CCD-equipped cameras relegate to other circuits and memory buffers.

CMOS technology promises to cut the cost of digital cameras—some analysts predict prices will fall to as low as $100 in the next two years, with extra savings coming from the need for fewer battery replacements. And CMOS sensors are at the heart of Intel Corp.'s 971 PC Camera Kit, a combined camera-design specification, chip set, and software bundle that the giant chip maker



lution is 640x480, known to monitor shoppers as VGA. Although some cameras have lower resolutions and some have higher, VGA is the current minimum standard for midpriced cameras (those that sell for around $500). VGA can't cut it for more than personal snapshot and Web use, but its current status as the bottom of the market range is an improvement over just a year or so ago, when 640x480-pixel ability put a camera into the top tier.

Generally, the higher a camera's resolution, the higher its price. Megapixel cameras—really the only ones that can compete with film cameras on the quality front—cost from $700 to $1,000. Many VGA-resolution models can be found for less than $500. Usually, you do indeed get what you pay for because the differences between high- and low-resolution cameras' photographs are striking.

Note that some cameras let you choose between two resolutions or, infrequently, more. This flexibility can come in handy—for example, you can snap at a low resolution when your images are destined for a computer screen or Web page, and at a high resolution when they'll end up on paper.

But not everyone needs to splurge for stratospheric resolution. If you're using a digital camera to produce pictures strictly for Web publishing or personal use, a 640x480 model should suit you just fine. If, by contrast, you'll be using the camera as a business tool—and the quality of its images will reflect the quality of your business—invest in a megapixel model.

A camera's resolution also impacts several other considerations. The higher an image's resolution, the larger the resulting file, even when it's compressed within the camera. Fewer images can be stored in the camera's internal memory or on its memory cards. It will take longer to transfer images from the camera to your PC via serial cable, and you'll need more drive space to store photos on your computer.

THE SHARPEST IMAGE

Resolution may be one of the few meaningful numbers on a digital-camera spec sheet, but several hard-to-quantify performance factors are just as crucial to the quality of a camera's photographs.

Because it's virtually impossible to assess a camera's photos before you buy, don't purchase a unit from a vendor that lacks a no-questions-asked money-back guarantee. As soon as you have the camera in hand, start shooting—both indoors and out, both portraits and landscapes—and review the images both on your monitor and in final printed form. If you want to get scientific, you can shoot the same scenes and portraits with a 35mm camera and compare those photos with your new digital versions.

You should look for several crucial elements. Many cameras have problems reproducing skin tones accurately (something CCD-based scanners also often balk at), so try plenty of portraits—close-ups as well as middle-length shots.

Nor do most digital cameras handle low-light situations well. Try shooting some outdoor samples when it's cloudy; if the camera doesn't include a flash unit, take some indoor shots, too. Some underexposed images can be rescued in the "development" stage when you finesse the photo using image-editing software, but a camera that produces accurate exposures in the first place is better.

A few cameras offer manual exposure controls, but it takes time to learn how to apply them properly. Most of us are better-served by a camera with good to excellent automatic exposure skills.

Finally, pay close attention to the photos' color balance, best seen as the absence of any overall—and inappropriate—tint. Some cameras give a yellowish hue to the entire photo; others lean toward the blues. It's easier to note poor color balance in indoor photos.

FEATURE FINDERS

It's a bit easier to check off the things you see—or don't see—on a camera's body than to figure out which camera will churn out the best pictures. That's why for many people, a feature list is a primary shopping aid.

For example, many new cameras include built-in LCD screens. These tiny monitors, generally built into the back of the camera body, serve as both viewfinders and photo reviewers. In their first role, they frame the scene more accurately than an optical viewfinder—you can think of an LCD-equipped camera as analogous to a through-the-lens film camera. As review or preview screens, LCDs let you review photographs instantly, so you can delete or retake them as necessary.

Most cameras have 1.8-inch LCD screens, though a few—such as Sharp Electronics Corp.'s VE-LC1U—use more spacious 2.5-inch displays. Even though LCD screens drain batteries, get one—LCD-equipped cameras' convenience outweighs their higher purchase and operating costs.

A flash is another required feature. Cameras at the bottom end of the price scale may sacrifice a flash unit, but you shouldn't.

As for the lens, it's hard to compare digital-camera lenses with those of traditional cameras—the former offer much shorter focal lengths. However, most digital-camera spec sheets note lens sizes in an equivalent 35mm-film-camera size. The most common numbers here are in the 40mm to 50mm range, which is a compromise suitable for most snapshot situations.

Although some professional-level digital cameras accept traditional 35mm camera lenses, no under-$1,000 camera does yet, so you're most likely stuck with what's built into the camera body. As digital-camera prices come down and specs go up, this will change.

Few consumer-oriented digital cameras provide a zoom lens—standard on even midpriced pocket 35mm cameras—because it adds to the cost. Models such as Eastman Kodak Co.'s DC210 and Olympus' D-500L, both priced around $900, are among those that do. For now, consider a zoom lens a luxury.

The ease of use of a camera's controls is an important intangible. A digital camera is rarely as simple to operate as an automatic 35mm film camera. If you can, get some hands-on time with a camera, playing with the various controls—particularly those for setting flash, image resolution or quality level, and image erasing. Are they easy to locate or incomprehensible without reference to the owner's manual? Does the camera fit nicely in the hand, and is it large enough to keep errant fingers from accidentally covering the lens? If you're left-handed, is the camera comfortable for you? Most units are distinctly designed for righties.

HOLD THAT POSE

The fact that digital cameras don't use film may sound great—in fact, when you're calculating whether a digital camera will save your business money, the no-film factor is one of the biggest cost savings. But as you choose a camera, you should know that image-storage schemes vary widely.

Digital cameras store the images they capture in nonvolatile memory, so the pictures don't vanish when the camera is switched off. But the amount of that memory, its format, whether the memory is built-in or removable, and its cost are all important aspects of a camera's quality.

First, look for a camera that uses some form of removable memory to save photos. With such memory, your digital camera acts more like a film camera—you can swap empty memory cards (blank film) for full cards (exposed film). Cameras that lack removable memory rely on their internal storage space, which can keep you on a tight photographic leash—once the camera's memory fills up, you must either return to your computer to transfer images to its hard drive, or erase some images to keep shooting.

Sony's two Digital Mavica cameras store shots as JPEG files on familiar 3.5-inch floppy disks, but

touts as a way to drive digital-camera prices down.

On the minus side, current CMOS-based cameras don't produce better results than CCD-equipped cameras. Some, in fact, fall far short; others suffer from the same image-capture problems as their CCD cousins, including poor color balancing and substandard results in low-light situations.

As a buyer, you don't need to dig into camera specs to worry whether a particular unit uses CMOS or CCD technology. But the move toward CMOS should accelerate—and affect camera prices—by late this year, as PC Camera Kit-compliant models reach the market. And that's a trend worth watching. ▼

The Photo-Paper Primer

The availability of low-cost, high-quality inkjet printers has helped fuel today's explosion of digital cameras. And in some cases—with a camera of sufficiently high resolution and with final images printed at small sizes such as 3x5 inches—a shot taken by a digital camera and printed on an affordable inkjet can look amazingly like a print from your local photo shop.

One of the keys to getting this kind of quality print, however, is the paper stock you use. Inkjet paper comes in many grades; browse a big office-supply catalog, and you'll find scores. As a rule, however, paper types fall into three broad categories:

Plain paper is the same kind you use for draft documents—essentially the same bulk paper you load into a laser printer or photocopier. It costs next to nothing, but its lack of finish and relatively dark surface mean that colors printed on it bleed and appear dull. Photos printed on plain paper look unfocused and rarely reproduce colors accurately. The only suitable application for this paper is printing proofs for positioning, not for color fidelity.

Coated paper goes by a number of names—such as premium paper or inkjet paper. Such paper is much whiter than plain paper, and features a coating or finish that reduces ink blooming. It's more expensive than copier paper, running about 10 to 20 cents per sheet, but its ink-handling characteristics make coated paper the right choice for duplicating photos or printing photo-filled documents such as newsletters.

Photographic paper is the Cadillac of cellulose. It should be: This paper—featuring a high-gloss finish and a weight and feel close to the photographic paper used for printing film images—can cost up to $1 per sheet. With its extremely high whiteness factor and heavy stock, photographic paper is your best bet for producing single prints.

Also, it comes in sizes other than 8.5x11 inches—you can find 4x6-inch photographic paper, perfect for printing images shot by megapixel cameras. Smaller sizes, naturally, cost less per sheet. ▼

otherwise, removable memory virtually always comes on a card of some sort. The format of the card, however, may make you pick one camera or avoid another. Current entrants range from notebook- or PDA-style PC Card flash memory cards to several newer, smaller formats, with CompactFlash so far proving more popular than its rival SmartMedia.

Economics play a part here, of course—the more cameras use a particular card format, the faster the price of that format falls. CompactFlash cards are relatively easy to find at large direct and online dealers; they come in several capacities and cost about $20 per megabyte.

CompactFlash cards aren't themselves PC Cards, but you can slip one into a PC Card adapter and quickly transfer images to most laptops. If you plan to use a notebook as the basis of your digital darkroom, seek out a camera equipped with PC Card-based memory or such an adapter. Inserting a card beats plugging in a cable for transferring images. You can also bring such convenience to a desktop system if you invest in a desktop PC Card reader.

Beyond memory type, the most important camera storage trait is capacity, expressed as a number of frames or images. Because most cameras let you choose different compression densities, picture resolutions, or both—both of which affect the final size of the image as it's stored in the camera's memory—camera specs usually list multiple numbers or a range of possible numbers.

For comparison's sake, check the number of highest-quality/highest-resolution frames that can be stored in the camera's default memory. Avoid cameras that hold fewer than 20 frames, unless they use removable memory—otherwise, they'll severely restrict the number of photos you can take without returning to your PC.

MORE POWER TO YOU

Digital cameras may not consume film, but they eat up batteries—lots of batteries. Most, in fact, can drain the juice from a full set of batteries in just 20 to 30 minutes of operation.

The rate of consumption is dictated by a number of camera characteristics and your photographic technique, including how often you use the flash, how many images you shoot or erase from the camera's memory, and whether the camera has an LCD screen.

The LCD is the most serious offender here—cameras that include LCD screens exhaust their batteries far more quickly than those that don't. Although the convenience of an LCD screen outweighs this problem for most photographers, you can ease the battery burden by shopping for a camera that also includes an optical viewfinder. With such cameras, you can turn on the LCD only when necessary.

Check that any LCD-equipped camera offers power-management features. The most common feature is an automatic power-down that switches off the LCD after a set period. Others include a brightness control or the ability to switch the LCD on and off manually.

Note, however, that even cameras without LCD screens devour batteries. Because most cameras use disposable cells—typically four or six AA or AAA batteries—it's smart to travel with a full set of replacements. Cameras such as Kodak's DC20, which use disposables other than those easily found sizes, should be approached with caution. Any convenience store stocks AAs or AAAs, but unusual sizes can make in-the-field battery replacement difficult.

The easiest way to save batteries is to invest in an AC adapter or better yet buy a camera with one, although units packaged with AC adapters at no extra cost are rare. With an adapter plugged into the camera, you won't drain batteries during the time-consuming transfer of images from camera to computer.

Some cameras, such as Canon Computer Systems' PowerShot 350, get around the power problem by using rechargeable batteries. By necessity, they bundle a recharger. If you opt for a rechargeable camera, look for models that use nickel-cadmium or nickel-metal hydride batteries, which can keep a camera going two or three times as long as alkaline disposables can. You'll also want to buy at least one set of spares; keep them charged and pack them with the camera.

SOFTWARE SATISFACTION

Your camera checklist isn't complete until you check out the software bundle. Although a camera's software rarely makes or breaks a purchase, it's sure to play a part in your long-term satisfaction.

Most cameras come with an image editor, a camera-to-computer transfer utility, and a TWAIN driver. The last lets you access the camera's memory from within any TWAIN-compliant application, then transfer images directly into that application. Dual-platform cameras—which support both PCs and Macs—also usually include an Adobe Photoshop plug-in, which serves essentially the same purpose on the Mac as a TWAIN driver does on the PC.

A few cameras toss in additional programs, ranging from just-for-fun image-morphing software to slide-show programs that can serve as elementary presentation makers for business.

The most important piece of the bundle is the transfer utility, which is sometimes just the TWAIN driver disguised by an interface. The best of such utilities do three things: They display thumbnails of the camera's contents so you can selectively transfer images; they automatically set the transfer speed to the highest possible rate and identify the serial port into which you've plugged the camera; and they provide simple, drag-and-drop downloading of images from the camera to your PC.

It's also helpful if the software can save images in a variety of formats—letting you, for instance, save images intended for Web publishing as GIF files and those destined for printed documents in PCX format. Image organization isn't a strong suit of these bundled utilities—you'll want to invest in a dedicated image organizer if you take a lot of photos—but some programs let you create on-disk folders for storing and sorting images.

Image editors included with cameras run the gamut from the professional to the pathetic, but since the cost of a new image editor would be just a small fraction of what you'll pay for a camera, don't let the included editor dictate your decision. Ideally, you'll want a friendly, easy-to-use editor if you're shooting family snapshots; Adobe Systems' PhotoDeluxe and Microsoft Corp.'s Picture It are two excellent examples in this group. If you're planning to churn out large numbers of images for business purposes, you're better off buying an editor such as Ulead Systems' PhotoImpact rather than relying on bundled software.

Megapixel mega-bargains: Eastman Kodak's DC210 offers 1,154x864 resolution and a 2x zoom for $899. Epson's $699 PhotoPC 600 gives you 1,024x768 resolution.

MOVE IT OR LOSE IT

Digital cameras aren't dumb—some can behave like pint-size presentation devices, displaying their pics on a TV tube—but with few exceptions, they're useless without a PC or Mac in the vicinity. That's why you should pay attention to how any camera you're considering transfers images to the computer.

Virtually all cameras come with a cable (or two, if the model supports both PC and Mac) that connects to a serial port. Obviously, your computer must have a serial port available, or you'll be forced to constantly connect and reconnect the cable—both a bother and liable to damage the connector eventually. If you must, consider buying an I/O board that provides a pair of additional serial ports.

Transfer times vary from camera to camera, hinging to some degree on the transfer software or TWAIN driver provided. Not all drivers, for example, let you transfer at most PC serial ports' maximum of 115Kbps; many peak at about half that speed.

Transfer speed also depends on the size of the image files—no matter how efficient the compression inside the camera, a megapixel photo takes longer to download to the computer than one snapped at 640x480. Remember this when shopping for a high-resolution camera: Transfer time can make the instant-gratification claim of digital cameras far from instant—transferring a roll's worth of high-resolution images (say, 36 pictures) from some cameras can take more than half an hour.

Your best defense against such download downtime? Make sure the camera uses removable memory cards that either follow the PC Card standard or fit into a PC Card adapter. You can then simply stick the card in a slot to transfer images. Though you'll need a PC Card reader for your desktop machine, transferring images from a flash-memory card is far faster and more convenient than a cable connection.

A few cameras, such as Sony's DSC-F1, sidestep serial-port connections by providing infrared transfer capability. However, you won't see a speed increase, and you'll need an infrared adapter at the computer end—another feature far more common on laptops than on desktops.

In the long run—perhaps as early as the second half of 1998—look for a crop of digital cameras that plug into PCs via Universal Serial Bus (USB) ports. USB transfer rates (typically 1.5Mbps, though faster speeds are possible) are quick enough to whisk digital images into a computer within seconds.

Now that you know how to assess features, storage memory, resolution, batteries, software, and camera-to-computer techniques, and even have a short list of things to look for in a camera's snapshots, it's time to start narrowing the field. Are you after a personal camera or a business-grade unit, or are your requirements esoteric enough to dictate a specialty camera? Let's look at each of these three categories.

PERSONAL CAMERAS

Personal digital cameras are the meat and potatoes of the marketplace, sustained by their features, their steadily rising resolution, and most important, their prices. These cameras are suitable for taking Web-page pictures, family

SHOPPING TIPS

✓ Look for a camera resolution of at least 640x480 pixels for Web-page publishing or personal snapshots; if image quality is paramount, seek out a 1,024x768 or 1,152x864 megapixel model. Remember, however, that higher-resolution images hog more memory and drive space.

✓ Cameras with removable memory—using PC Card flash modules or a popular alternative such as CompactFlash cards—are highly preferable to those with nonexpandable internal image storage. If you'll transfer images to a laptop or a desktop equipped with a PC Card reader, opt for a model that uses PC Cards or one that provides a PC Card adapter.

✓ If you do buy a camera that stores images internally, be sure it has sufficient capacity for at least 20 images at its highest resolution or quality setting.

✓ An LCD screen, which lets you frame images as well as review shots you've taken, is a checklist item worth demanding. Look for power-management features that can reduce an LCD's battery appetite.

✓ Because cameras consume batteries fast, look for a unit that uses commonly available battery types or, even better, rechargeable batteries. An AC adapter is a recommended addition.

✓ When it comes to bundled software, a capable camera-to-computer image-transfer utility and TWAIN driver are musts. An image editor such as Adobe PhotoDeluxe or Microsoft Picture It is a plus.

✓ Cameras that plug into serial ports are the most common, but keep an eye out for models with faster ways of downloading images to your PC, such as USB ports or compatible removable memory.

✓ Handle the camera before you buy, if possible, checking for a finger-friendly design and easy-to-use, well-labeled controls.

✓ Rigorously examine a camera's image quality immediately after buying. Look for accurately reproduced skin tones in portraits and watch out for unnatural tints, especially in indoor shots. Also check the camera's ability to deliver decent images in dim lighting.

✓ For casual snapshot and Web use, expect to pay less than $500 for a basic personal camera capable of 640x480 resolution. The camera should be equipped with a flash, an LCD viewfinder/preview screen, and ideally, removable memory.

✓ A megapixel-class camera fit for business-quality output or discriminating amateur use should set you back about $800 to $900. Expect manual controls or settings, plus possibly a zoom lens, rechargeable batteries, or both. ▼

snapshots, and images for in-house business documents where picture quality isn't a top concern.

A basic personal camera costs between $400 and $500, a price point that will continue to erode during 1998. It should shoot photos at 640x480-pixel resolution, include a flash plus an LCD preview/review screen, and be completely or almost completely automatic.

Although not a defining characteristic, personal cameras are often compact enough to fit into a briefcase or jacket pocket. They're the digital equivalents of the popular point-and-click 35mm cameras most tourists now carry.

A personal camera may or may not use removable memory; the lower the camera's price, the less likely it is to use memory cards, instead relying on built-in flash memory that can't be expanded. Such unexpandable cameras are still common, but avoid them if at all possible.

CASIO
CASIO
TOSHIBA
FUJIFILM

Look for a removable-memory scheme for maximum flexibility. Casio's QV-700, Fujifilm's DX-5, and Toshiba's PC Card-interface PDR-2 all use swappable flash-memory cards to store images.

Some personal cameras produce good to excellent images in 640x480-pixel resolution; among the best are models such as Agfa's ePhoto 307 and Canon's PowerShot 350. But the relatively few total pixels in such photos mean that hard-copy prints larger than 3x5 inches show pixelization—and even prints of that size are easily identified as digitally rendered when compared with film photos, due to off-kilter color balance and an almost universal inability to render background details.

That said, however, the resolution and image quality of personal cameras are usually more than sufficient for Web pictures, whether for a corporate site or a personal page.

BUSINESS CAMERAS

Tumbling prices have not so much disturbed as created this second category of digital cameras. Business cameras sit at the top end of the consumer price range—one which, like so much else about digital cameras, is constantly shifting.

The "business" label may be a bit of a misnomer. It's true that these cameras are most suitable for business—their images are sufficiently sharp and detailed that your company won't be embarrassed to put them into its outbound print material. But these are also the cameras that should catch the eye of dedicated amateur photographers.

Today's prototypical business camera will include all the features found in a personal camera, but its image resolution should be at or near the megapixel range. Although the resolving power of this class of cameras is anything but set (unlike personal cameras, which almost universally snap at 640x480), consider a resolution of at least 1,024x768 pixels the target.

Business cameras are often more flexible than personal cameras, sporting manual controls or settings for such things as exposure. Increasingly, these higher-priced models also include a zoom lens; a motorized zoom is preferable. Many use rechargeable batteries rather than disposables.

Of course, added functions and image quality cost money. Business cameras sell for around $800 to $900, double the price of typical personal cameras. In many ways, business digital cameras fill the same niche as single-lens-reflex film cameras.

Finally, don't confuse business-level cameras with professional-level digital cameras, true high-end models whose prices can reach well beyond $10,000. Some professional models offer 2-megapixel resolutions, SCSI interfaces, and the ability to capture images at bit depths greater than 24 bits. Others also accept traditional film-camera lenses. And a few manufacturers, such as Dicomed and Phase One United States, manufacture portable and PC-tethered digital camera backs—digitizing units you affix to the rear of a professional, standard-format film camera. However, these niche-market cameras are well beyond the means of most PC-owning consumers.

SPECIALTY CAMERAS

With dozens of digital-camera makers in the market and scores of models on the shelves, there's plenty of room for specialty cameras that offer a twist on the typical.

Subcompact cameras are one such group. These tiny devices are often small and light enough for would-be 007s to hide in one hand. Kodak's DC20 and Toshiba America Information Systems' PDR-2, for example, weigh just a few ounces and aren't much bigger than a deck of cards.

However, subcompact cameras are as notable for what they don't have as for what they do. They're too tiny to have LCD screens and usually omit a flash, although the DC20 has a slip-on flash attachment. Controls, too, are minimal—often just a shutter button and an on/off switch. Worst of all, most current subcompacts take relatively poor pictures, though that's not a fault of their size.

Their purse or pocket size, of course, is subcompacts' main attraction. Another is ease of use: Without screens to navigate or controls to get in the way, most subcompacts are as simple to operate as $10 disposable film cameras.

Other cameras have different specialties. Several, such as Umax Technologies' MDX-8000, integrate tiny microphones into their cases, recording spoken notes as well as sights. They usually use the same memory to store audio data as they do to store photos.

One camera takes the personal-assistant motif to extremes: Nikon's CoolPix 300 uses its 2.5-inch rear-mounted LCD not only to preview the shots you've taken, but also to let you scribble notes with a stylus. It's not for everyone—okay, it's not for more than a handful of users—but the CoolPix and other specialty cameras show that digital doesn't have to be a pale imitation of film.

COVER YOURSELF

No matter what type of digital camera you choose, some advice fits all. To begin with, check the warranty length.

Most cameras come with a one-year warranty, but there are exceptions. A few manufacturers offer extended warranties—as long as three years—for an added cost.

No matter what the warranty, it's important to be happy with your camera from the get-go. The only way to make sure is to buy from a vendor that accepts no-questions-asked returns without charging a restocking fee (the time frame may range from as few as seven to as many as 30 days). With this kind of assurance at your back, you can order a camera, give it some hands-on testing, and return it if it's not up to snuff—all you'll be out is the return shipping fee and the cost of a few sets of batteries.

Digital cameras may seem to be sprouting out of the ground these days—every time you turn around, there's another new manufacturer on the market with another collection of new models. But the devices are popular for a reason: Digital imaging is a cutting-edge PC application that makes tremendous sense. Got the itch to take a pic, snap a shot, and print a proof? Just point, squint, and click. ▼

COMPARISON CHARTS ON PAGE 335

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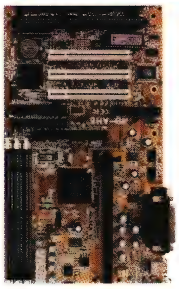

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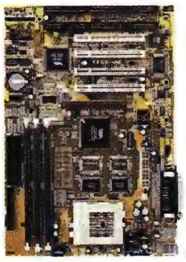

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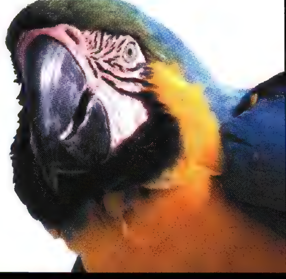

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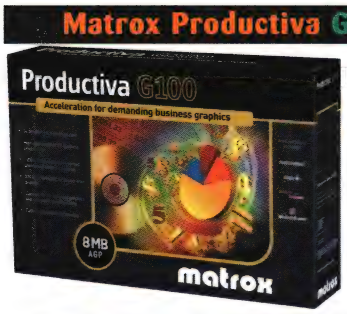
Matrox Productiva G100



4MB **$69**

8MB **$87**

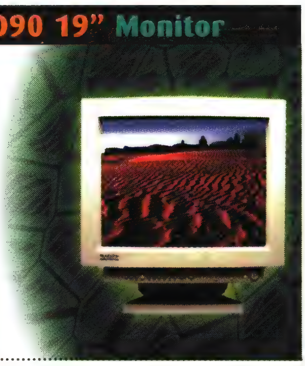
Productiva G100: 4 or 8 MB AGP video card for demanding business applications; fully multimedia upgradeable.

Princeton EO90 19" Monitor

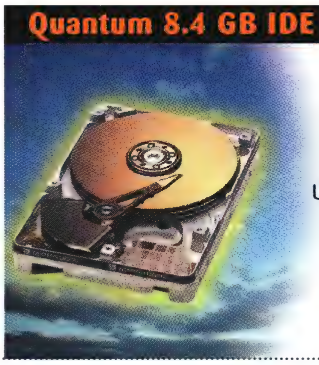
(18" viewable)
1600x1200,
.26mm dot pitch,
dark-tinted,
AART coated,
anti-static

EO90
$699

PRINCETON GRAPHIC SYSTEMS



Quantum 8.4 GB IDE Hard Drive



Fireball SE
128K Cache
10ms access time
5,400 RPM
Ultra DMA/33 interface
3 Year warranty

QTM38400A
$338

Quantum

Why should you choose TC for your motherboard upgrade?

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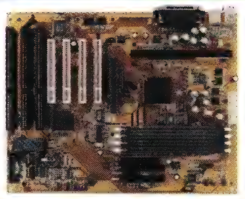
Pentium® II LX Chipset Motherboard Hot Sellers

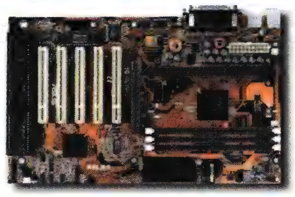


ABIT — Intel 440LX Chipset — **$139**

ABIT LX6

- Intel 440LX Chipset
- Support Ultra DMA/33 IDE protocol
- 4 168-pin DIMMS, System memory up to 512MB
- One 32-bit AGP, 4 PCI, 3 ISA slots.
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- ATX form factor. 304X204mm.

Without CPU	$139
W/ Intel Pentium® II 233MHz Chip	$399
W/ Intel Pentium® II 266MHz Chip	$489
W/ Intel Pentium® II 300MHz Chip	$619
W/ Intel Pentium® II 333MHz Chip	$789

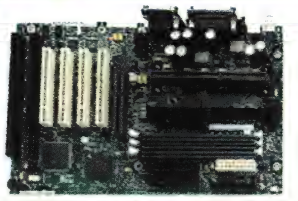


ASUS — Intel 440LX Chipset — **$159**

ASUS P2L97

- Intel 440LX Chipset
- CPU Built-in 512KB PB SRAM Integrated L2 Cache
- 3/168-Pin DIMM Sockets, supports 8MB to 384 MB
- One 32-bit AGP, 2 ISA bus slots, 5 PCI bus Slots
- Award Flash Plug & Play BIOS supports DMI
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB, ATAPI CD-ROM Support, PS/2 Kybd & Mouse ports
- ATX Form Factor 8.3"x 12"

Without CPU	$159
W/ Intel Pentium® II 233MHz Chip	$419
W/ Intel Pentium® II 266MHz Chip	$509
W/ Intel Pentium® II 300MHz Chip	$639
W/ Intel Pentium® II 333MHz Chip	$809

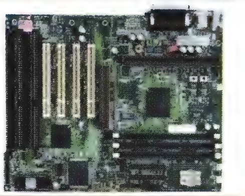


intel — Intel 440LX Chipset — **$199**

INTEL AL440LX

- Intel 440LX Chipset
- 512KB Second-level Cache
- 3 168-pin DIMMS, Supports up to 384MB DRAM mem.
- One 32-bit AGP, 2/16-bit ISA, 4/32-bit PCI slots
- Supports up to four IDE drives or devices
- Plug & Play compatible
- ATX form factor of 12x7.75"

Without CPU	$199
W/ Intel Pentium® II 233MHz Chip	$459
W/ Intel Pentium® II 266MHz Chip	$549
W/ Intel Pentium® II 300MHz Chip	$679
W/ Intel Pentium® II 333MHz Chip	$849

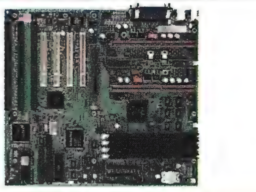


SUPER — Intel 440LX Chipset — **$145**

SUPERMICRO P6SLA

- Intel 440LX Chipset
- Supports Dual Pentium® II 300/266/233MHz or higher
- AGP, Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33
- 3 168-pin DIMMs
- One 32-bit AGP, 3 ISA, 4 PCI Slots
- 532 MB/s 2x trans. mode
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Size: Full ATX, 768MB EDO or 384MB SDRAM w/ 3 DIMMs

Without CPU	$145
W/ Intel Pentium® II 233MHz Chip	$405
W/ Intel Pentium® II 266MHz Chip	$495
W/ Intel Pentium® II 300MHz Chip	$625
W/ Intel Pentium® II 333MHz Chip	$795



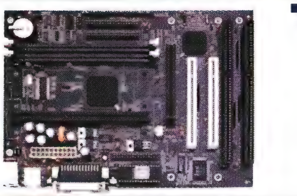
SUPER — Intel 440LX Chipset — **Dual $339**

SUPERMICRO P6DLS

- Intel® 440LX Chipset
- 2 slots for Dual Pentium® II Processor
- On-board Adaptec 2940 Ultra Wide SCSI controller
- One 32-bit AGP, 3 ISA, 4 PCI Slots
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- ATX size, 1GB EDO, 512MB SDRAM w/ 4 168-pin DIMM sockets

Also available SuperMicro P6SLS for $249

Without CPU	$339
W/ Intel Pentium® II 233MHz Chip	$599
W/ Intel Pentium® II 266MHz Chip	$689
W/ Intel Pentium® II 300MHz Chip	$819
W/ Intel Pentium® II 333MHz Chip	$989
W/ Dual Intel Pentium® II 233MHz	$859
W/ Dual Intel Pentium® II 266MHz	$1039
W/ Dual Intel Pentium® II 300MHz	$1299
W/ Dual Intel Pentium® II 333MHz	$1639

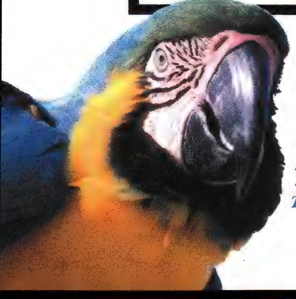


TYAN — Intel® 440LX Chipset — **$125**

TYAN 1694S TIGERCUB ATX

- Intel® 440LX Chipset
- Support Ultra DMA/33 PCI EIDE & Super I/O
- Up to 512MB of EDO two 168-pin DIMMS
- Expansion room for Graphics, Video & other peripheral cards
- One AGP slot, 2 PCI slots, 2 ISA slots
- 2 Serial, 1 Floppy, 1 Parallel, 1 P/S2 mouse, 1 P/S2 keyboard, 2 USB
- AMI Flash BIOS
- Double row ATX Connectors

Without CPU	$125
W/ Intel Pentium® II 233MHz Chip	$385
W/ Intel Pentium® II 266MHz Chip	$475
W/ Intel Pentium® II 300MHz Chip	$605
W/ Intel Pentium® II 333MHz Chip	$775



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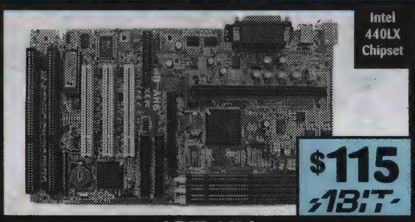
Free Installation Video, CPU Fan, Anti-Static Wrist Strap with any Motherboard + CPU Purchase

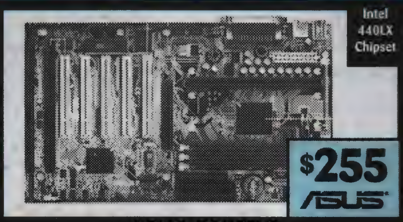


ABIT AH6

- Intel 440LX Chipset
- Support Ultra DMA/33 IDE protocol
- 3 168-pin DIMMS sockets supports SDRAM & EDO DRAM modules
- One AGP slot, 3 PCI slots and 2 ISA slots.
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- ATX form factor. PC97 Compliant

(See more Abit on the opposite page)

Without CPU	**$115**
W/ Intel Pentium® II 233MHz Chip	**$375**
W/ Intel Pentium® II 266MHz Chip	**$465**
W/ Intel Pentium® II 300MHz Chip	**$595**
W/ Intel Pentium® II 333MHz Chip	**$765**

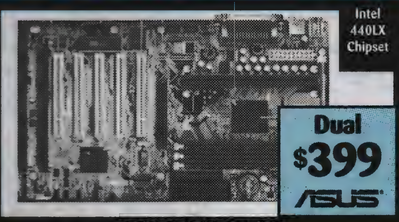


ASUS P2L97-S

- Intel 440LX Chipset
- 3/168-Pin DIMM Sockets, supports 8MB to 384 MB
- One 32-bit AGP, 2 ISA bus slots, 5 PCI bus Slots
- Award Flash Plug & Play BIOS supports DMI
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB, ATAPI CD-ROM Support, PS/2 Kybd & Mouse ports
- AIC 7800 ADAPTEC ultra SCSI
- ATX Form Factor 8.3"x 12"

(See more ASUS on the opposite page)

Without CPU	**$255**
W/ Intel Pentium® II 233MHz Chip	**$515**
W/ Intel Pentium® II 266MHz Chip	**$605**
W/ Intel Pentium® II 300MHz Chip	**$735**
W/ Intel Pentium® II 333MHz Chip	**$905**

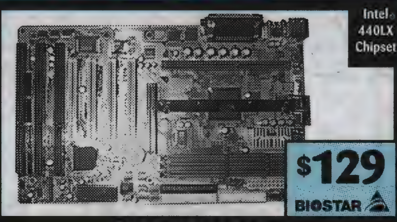


ASUS P2L97-DS

- Intel 440LX AGPset / Dual 233-333MHz
- Built-in 512K Cache, 4 DIMM Sockets
- One 32-bit AGP, 4 PCI, 2 ISA Slots
- ACPI, DMI, PnP, Green, Symbios SCSI
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB, ATAPI CD-ROM Support, PS/2 Kybd & Mouse ports
- Size: ATX Form Factor

(See more ASUS on the opposite page)

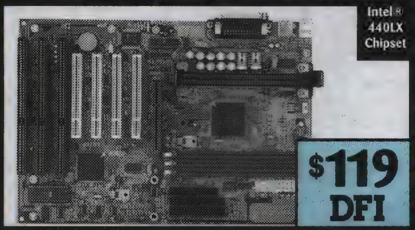
Without CPU	**$399**
W/ Intel Pentium® II 233MHz Chip	**$659**
W/ Intel Pentium® II 266MHz Chip	**$749**
W/ Intel Pentium® II 300MHz Chip	**$879**
W/ Intel Pentium® II 333MHz Chip	**$1049**
W/ Dual Intel Pentium® II 233MHz	**$919**
W/ Dual Intel Pentium® II 266MHz	**$1099**
W/ Dual Intel Pentium® II 300MHz	**$1359**
W/ Dual Intel Pentium® II 333MHz	**$1699**



BIOSTAR M6TLC

- Intel® 440LX PCIset, Pentium II 233~333MHz 440LX Mainboard
- Ultra DMA/33 IDE support
- One AGP Bus slot, 3 16-bit ISA and 4 32-bit PCI slots w/ 4 masters
- 4 168-Pin DIMM Sockets
- 2 Serial, 1 Floppy, 1 Parallel, 2 sets USB, PS/2 Keyboard
- Award BIOS PnP, Windows 98, APM 1.2, DMI
- ATX Form Factor, 30.5cm x 19cm (W x L)

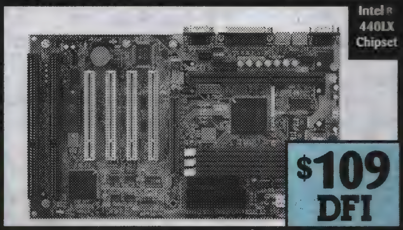
Without CPU	**$129**
W/ Intel Pentium® II 233MHz Chip	**$389**
W/ Intel Pentium® II 266MHz Chip	**$479**
W/ Intel Pentium® II 300MHz Chip	**$609**
W/ Intel Pentium® II 333MHz Chip	**$779**



DFI P2XLX

- Intel® 440LX Chipset/ Intel Pentium® II Processors
- Support Ultra DMA/33
- 3 168-pin DIMMS sockets (un-buffered)
- Accelerated Graphics Port (AGP) w/ up to 533MB/sec bandwidth
- One AGP slot, 3 PCI slots, 2 16-bit ISA slots, 1 shared PCI/ISA slot
- 2 Serial, 1 Floppy, 1 DB-25 Parallel, 2 IDE, 2 USB
- Award BIOS, Windows®95 Plug & Play compatible
- 4 layers, ATX form factor. 12" x 8.27"

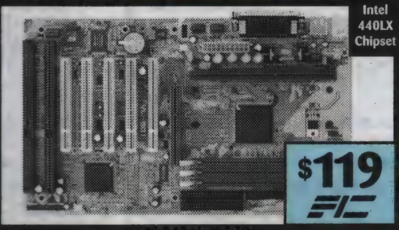
Without CPU	**$119**
W/ Intel Pentium® II 233MHz Chip	**$379**
W/ Intel Pentium® II 266MHz Chip	**$469**
W/ Intel Pentium® II 300MHz Chip	**$599**
W/ Intel Pentium® II 333MHz Chip	**$769**



DFI P2XLX/e

- Intel® 440LX Chipset/ Intel Pentium® II Processors
- Support Ultra DMA/33
- 3 168-pin DIMMS sockets (un-buffered)
- Accelerated Graphics Port (AGP) w/ up to 533MB/sec bandwidth
- One AGP slot, 4PCI slots, 2 16-bit ISA slots
- 2 Serial, 1 Floppy, 1 DB-25 Parallel, 2 IDE, 2 USB
- Award BIOS, Windows®95 Plug & Play compatible
- 4 layers, ATX form factor. 12" x 7.08"

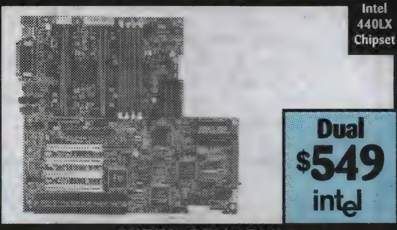
Without CPU	**$109**
W/ Intel Pentium® II 233MHz Chip	**$369**
W/ Intel Pentium® II 266MHz Chip	**$459**
W/ Intel Pentium® II 300MHz Chip	**$589**
W/ Intel Pentium® II 333MHz Chip	**$759**



FIC VL-601

- Intel® 440LX Chipset/ Intel Pentium® II Processors
- 242-pin slot 1 Dual Independent Bus support Intel Pentium II 233/333MHz
- Ultra DMA33; PIO Mode 4, Three 168-pin DIMM
- One 32-bit AGP, 5/32-bit PCI, 2/16-bit ISA Slots
- APM 1.2; PnP compliant; Flash EPROM, LS-120 supp.
- 2 Serial, 1 Parallel, PS/2 mouse & keyboard
- ATX-size 4-layer PCB; 7.1"x12"

Without CPU	**$119**
W/ Intel Pentium® II 233MHz Chip	**$379**
W/ Intel Pentium® II 266MHz Chip	**$469**
W/ Intel Pentium® II 300MHz Chip	**$599**
W/ Intel Pentium® II 333MHz Chip	**$769**

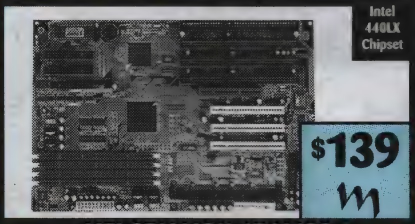


INTEL DK440LX

- Single or Dual Pentium II support / PCI/IDE interface
- 4 168-pin DIMMS,
- Supports up to 1GB memory
- One 32-bit AGP, 2/16-bit ISA, 4/32-bit PCI slots
- Supports up to four IDE drives or devices, Plug & Play compatible
- ATX form factor of 12x7.75"

(See more Intel on the opposite page)

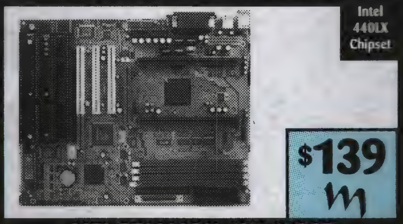
Without CPU	**$549**
W/ Intel Pentium® II 233MHz Chip	**$809**
W/ Intel Pentium® II 266MHz Chip	**$899**
W/ Intel Pentium® II 300MHz Chip	**$1029**
W/ Intel Pentium® II 333MHz Chip	**$1199**
W/ Dual Intel Pentium® II 233MHz	**$1069**
W/ Dual Intel Pentium® II 266MHz	**$1249**
W/ Dual Intel Pentium® II 300MHz	**$1509**
W/ Dual Intel Pentium® II 333MHz	**$1849**



MTI STALLION AT-M628

- Intel 82440LX PCIset
- 1 32-bit AGP, 3/32-bit PCI & 4/16-bit ISA slots
- 2 Serial, 1 Floppy, 1 FDD, 1 Parallel, Ir Connector
- 4 168-pin DIMM sockets,
- Flash EPROM BIOS
- Baby AT Form Factor 22cmx33cm.

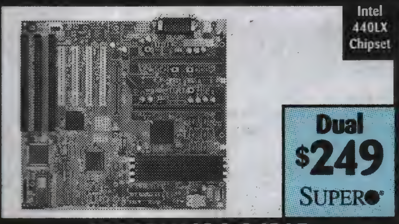
Without CPU	**$139**
W/ Intel Pentium® II 233MHz Chip	**$399**
W/ Intel Pentium® II 266MHz Chip	**$489**
W/ Intel Pentium® II 300MHz Chip	**$619**
W/ Intel Pentium® II 333MHz Chip	**$789**



MTI STALLION ATX-M668

- Intel 82440LX PCIset
- Support Intel Pentium® II–233MHz to 333MHz slot 1 Proc.
- Accelerated Graphics Port/DMA33
- 1 32-bit AGP, 3 32-bit PCI & 4 16-bit ISA slots
- 2 Serial, 1 Floppy, 1 FDD, 1 Parallel, Ir Connector
- 4 168-pin DIMM sockets, Award or AMI pentium PCI BIOS
- ATX Form Factor. 4 layers of PCB, 24.5cm x 33.5cm.

Without CPU	**$139**
W/ Intel Pentium® II 233MHz Chip	**$399**
W/ Intel Pentium® II 266MHz Chip	**$489**
W/ Intel Pentium® II 300MHz Chip	**$619**
W/ Intel Pentium® II 333MHz Chip	**$789**

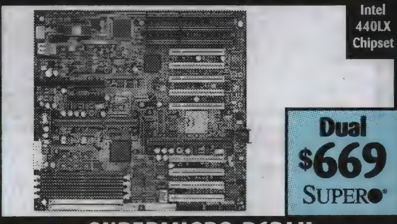


SUPERMICRO P6DLE

- Intel 440LX PCI Chipset
- 2 slots 1 for Dual Pentium® II Processor
- 3 ISA, 4 PCI Slots & DMI 2.0 support Flash EPROM
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- ATX size, 1GB EDO, 512MB SDRAM w/ 4 168-pin DIMM sockets

(See more SuperMicro on the opposite page)

Without CPU	**$249**
W/ Intel Pentium® II 233MHz Chip	**$509**
W/ Intel Pentium® II 266MHz Chip	**$599**
W/ Intel Pentium® II 300MHz Chip	**$729**
W/ Intel Pentium® II 333MHz Chip	**$899**
W/ Dual Intel Pentium® II 233MHz	**$769**
W/ Dual Intel Pentium® II 266MHz	**$949**
W/ Dual Intel Pentium® II 300MHz	**$1209**
W/ Dual Intel Pentium® II 333MHz	**$1549**

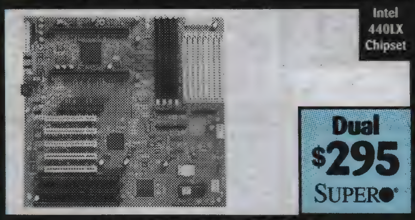


SUPERMICRO P6DLH

- Intel 440LX PCI Chipset
- Supports Dual Pentium® II 333/300/266/233MHz or higher
- Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33MB/s
- 4 168-pin DIMM
- One 32-bit AGP, 3 ISA, 9 PCI Slots
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Full AT, 1GB EDO or 512MB SDRAM

(See more SuperMicro on the opposite page)

Without CPU	**$669**
W/ Intel Pentium® II 233MHz Chip	**$929**
W/ Intel Pentium® II 266MHz Chip	**$1019**
W/ Intel Pentium® II 300MHz Chip	**$1149**
W/ Intel Pentium® II 333MHz Chip	**$1319**
W/ Dual Intel Pentium® II 233MHz	**$1189**
W/ Dual Intel Pentium® II 266MHz	**$1369**
W/ Dual Intel Pentium® II 300MHz	**$1629**
W/ Dual Intel Pentium® II 333MHz	**$1969**

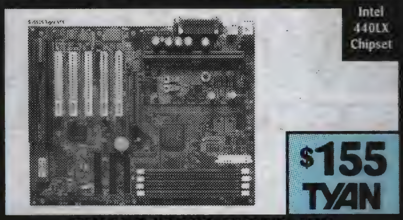


SUPERMICRO P6DLF

- Supports Dual Pentium® II 300/266/233MHz or higher
- AGP, Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33
- 4 168-pin DIMM & 8 SIMM sockets
- One 32-bit AGP, 3/16 bit ISA, 5/32-bit PCI Slots
- AGP connector, 532 MB/s 2x trans. mode
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Size: Full AT, 1GB EDO or 512MB SDRAM

(See more SuperMicro on the opposite page)

Without CPU	**$295**
W/ Intel Pentium® II 233MHz Chip	**$555**
W/ Intel Pentium® II 266MHz Chip	**$645**
W/ Intel Pentium® II 300MHz Chip	**$775**
W/ Intel Pentium® II 333MHz Chip	**$945**
W/ Dual Intel Pentium® II 233MHz	**$815**
W/ Dual Intel Pentium® II 266MHz	**$995**
W/ Dual Intel Pentium® II 300MHz	**$1255**
W/ Dual Intel Pentium® II 333MHz	**$1595**

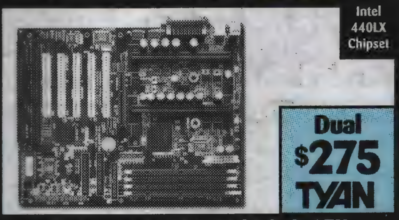


TYAN S1692S TIGER ATX

- Intel 440LX PCIset
- Maximum Memory Capacity to 1024MB RAM
- 1 32-bit AGP, 5/32-bit PCI & 2/16-bit ISA slots
- 2 Serial, 1 Floppy, 1 FDD, 1 Parallel, Ir Connector
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- ATX 9.5"x12"

(See more Tyan on the opposite page)

Without CPU	**$155**
W/ Intel Pentium® II 233MHz Chip	**$415**
W/ Intel Pentium® II 266MHz Chip	**$505**
W/ Intel Pentium® II 300MHz Chip	**$635**
W/ Intel Pentium® II 333MHz Chip	**$805**

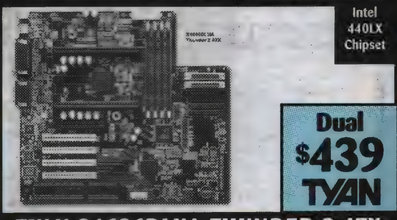


TYAN S1692DL TIGER 2 ATX

- Intel 440LX AGP Chipset, 32-bit AGP, Dual Pentium® II Support
- Up to 1024MB EDO/ECC DRAM Support
- 1 32-bit AGP, 5 32-bit PCI, 2 16-bit ISA slots, 1 shared PCI/ISA
- 2 Serial, 2 Floppy, 2USB, 1 Parallel, 1 IR, 1 mouse, 1 keyboard port
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- ATX 9.5"x12". Double row ATX Connectors.

(See more Tyan on the opposite page)

Without CPU	**$275**
W/ Intel Pentium® II 233MHz Chip	**$535**
W/ Intel Pentium® II 266MHz Chip	**$625**
W/ Intel Pentium® II 300MHz Chip	**$755**
W/ Intel Pentium® II 333MHz Chip	**$925**
W/ Dual Intel Pentium® II 233MHz	**$795**
W/ Dual Intel Pentium® II 266MHz	**$975**
W/ Dual Intel Pentium® II 300MHz	**$1235**
W/ Dual Intel Pentium® II 333MHz	**$1575**



TYAN S1696DLUA THUNDER 2 ATX

- Intel 440LX AGP Chipset, 32-bit AGP, Dual Pentium® II Support
- Up to 1024MB EDO/ECC DRAM Support
- 1 32-bit AGP, 4 32-bit PCI, 2 16-bit ISA slots, 1 shared PCI/ISA
- 2 Serial, 2 Floppy, 2USB, 1 Parallel, 1 IR, 1 mouse, 1 keyboard port
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- Extended ATX 12.25"x12". Double row ATX Connectors.

(See more Tyan on the opposite page)

Without CPU	**$439**
W/ Intel Pentium® II 233MHz Chip	**$699**
W/ Intel Pentium® II 266MHz Chip	**$789**
W/ Intel Pentium® II 300MHz Chip	**$919**
W/ Intel Pentium® II 333MHz Chip	**$1089**
W/ Dual Intel Pentium® II 233MHz	**$959**
W/ Dual Intel Pentium® II 266MHz	**$1139**
W/ Dual Intel Pentium® II 300MHz	**$1399**
W/ Dual Intel Pentium® II 333MHz	**$1739**

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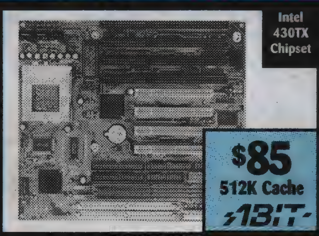
Intel 430TX Chipset



$85 512K Cache

ABIT PX5

- Jumperless CPU Settings with Soft Menu
- Intel 430TX PCI Chipset & 512K Pipeline Burst Cache
- 4 ISA & 4 PCI Slots
- 2/72-Pin SIMM & 2 DIMM Sockets (256MB max,
- Award PCI Flash Plug & Play BIOS
- 1 Floppy, 2 Serial & 1 Parallel Port (for up to 4 IDE devices), USB connector, AT Keybd. & PS/2 mse. connect
- Size: 8.6"x9.8", Baby AT Form Factor

Also available as an AT (ABIT TX5) for only $95
Also available as an ATX (ABIT AX5) for only $99

With No CPU...$85

With Intel Pentium® Processor

P5MMX-166MHz......$195 P5MM233MHz..........$255
P5MMX-200MHz......$205

With AMD-K6™ MMX Processor

K6 PR 200............ $185 K6 PR 233.................$225

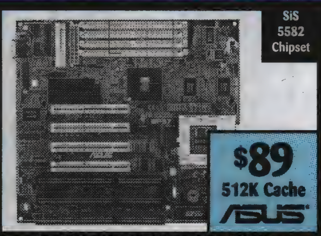
With CYRIX 6X86MX Processor

6x86MX PR200+..... $175 6x86MXPR233+.........$215

With IDT WinChip™C6™ Processor

WinChip C200.........$165

SiS 5582 Chipset



$89 512K Cache

ASUS SP97V with Video

- SiS 5582 Chipset
- 4X SIMM for EDO/FPM Memory Modules. (256MB max)
- Built-in 64-bit PCI Graphics Engine
- 3X ISA, 4X PCI Slots
- Award PCI BIOS DMI, Plug & Play BIOS, Green Feature
- 1 Floppy, 2 Serial & 1 Parallel Port, IrDA TX/RX Header (supports up to 4 IDE devices)
- Size: 9.6"x8.7", Baby AT PCB connector.

With No CPU...$89

With Intel Pentium® Processor

P5MMX-166MHz......$199 P5MM233MHz..........$259
P5MMX-200MHz......$209

With AMD-K6™ MMX Processor

K6 PR 200............ $189 K6 PR 233.................$229

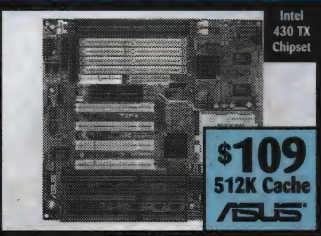
With CYRIX 6X86MX Processor

6x86MX PR200+..... $179 6x86MXPR233+.........$219

With IDT WinChip™C6™ Processor

WinChip C200.........$169

Intel 430 TX Chipset



$109 512K Cache

ASUS TXP4

- Intel 430TX PCI Set
- 4X SIMM for EDO/FPM Memory Modules, 2X DIMM for SDRAM (256MB max)
- 3X ISA, 4X PCI Slots
- Award PCI BIOS, DMI, Plug & Play, Green Feature
- 1 Floppy, 2 Serial & 1 Parallel Port, IrDA TX/RX Header (supports up to 4 IDE devices)
- Size: 9.6"x 9.6", Baby AT PCB connector.

With No CPU...$109

With Intel Pentium® Processor

P5MMX-166MHz......$219 P5MM233MHz..........$279
P5MMX-200MHz......$229

With AMD-K6™ MMX Processor

K6 PR 200............ $209 K6 PR 233.................$249

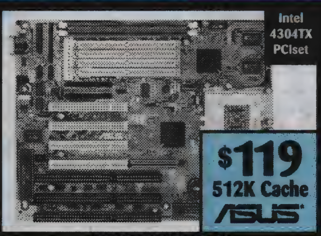
With CYRIX 6X86MX Processor

6x86MX PR200+..... $199 6x86MXPR233+.........$239

With IDT WinChip™C6™ Processor

WinChip C200.........$189

Intel 4304TX PCIset



$119 512K Cache

ASUS TXP4-X

- Intel 4304TX PCI Chipset & 512K Pipeline Burst Cache
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max)
- 3 ISA, 4 PCI (one shared)
- 1 Floppy, 2 Serial w/16550 & 1 Parallel Port w/ECP/EEP support, USB Port, Optional PS/2 support
- BIOS PCI Flash EPROM Plug & Play
- Size: 8.3"x12", ATX Form Factor Size

With No CPU...$119

With Intel Pentium® Processor

P5MMX-166MHz......$229 P5MM233MHz..........$289
P5MMX-200MHz......$239

With AMD-K6™ MMX Processor

K6 PR 200............ $219 K6 PR 233.................$259

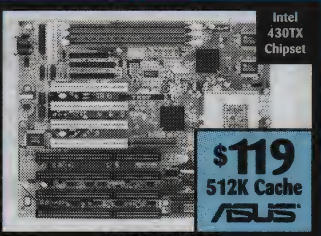
With CYRIX 6X86MX Processor

6x86MX PR200+..... $209 6x86MXPR233+.........$249

With IDT WinChip™C6™ Processor

WinChip C200.........$199

Intel 430TX Chipset



$119 512K Cache

ASUS TX97

- Intel 430TX PCI Chipset
- 512K Pipeline Burst Cache
- 3/168-Pin DIMM Sockets (256MB max)
- 4 ISA, 4 PCI (one shared)
- Ultra DMA/33 Bus Master IDE @ 33MB/sec
- 1 Floppy, 2 Serial w/16550 & 1 Parallel Port w/ECP/EEP support, USB Port, Optional PS/2 support
- Size: 8.6"x11.1", 3/4 Baby AT Form Factor

With No CPU...$119

With Intel Pentium® Processor

P5MMX-166MHz......$229 P5MM233MHz..........$289
P5MMX-200MHz......$239

With AMD-K6™ MMX Processor

K6 PR 200............ $219 K6 PR 233.................$259

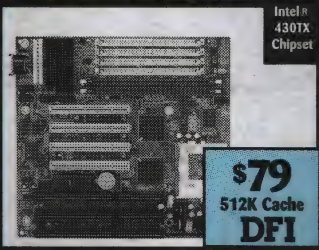
With CYRIX 6X86MX Processor

6x86MX PR200+..... $209 6x86MXPR233+.........$249

With IDT WinChip™C6™ Processor

WinChip C200.........$199

Intel® 430TX Chipset



$79 512K Cache

DFI P5BTX/L

- Intel® 82430TX PCIset/ 512KB Pipeline Burst Cache
- 3 16-Bit ISA slots, 4 PCI Slots
- 2 168-Pin DIMM & 4 72-Pin SIMM Sockets (256MB max)
- Award BIOS, Windows®95 Plug & Play compatible
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Size: 9.05" x 8.66", 4 layers, Baby AT form factor.

Also available DFI 586ITXD (ATX) for only $89
Also available DFI 586ITBD (Baby AT) for only $85

With No CPU...$79

With Intel Pentium® Processor

P5MMX-166MHz......$189 P5MM233MHz..........$249
P5MMX-200MHz......$199

With AMD-K6™ MMX Processor

K6 PR 200............ $179 K6 PR 233.................$219

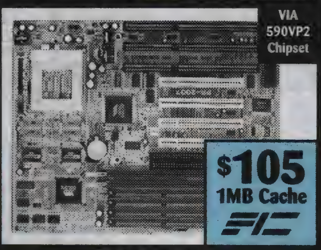
With CYRIX 6X86MX Processor

6x86MX PR200+..... $169 6x86MXPR233+.........$209

With IDT WinChip™C6™ Processor

WinChip C200.........$159

VIA 590VP2 Chipset



$105 1MB Cache

FIC PA-2007

- VIA 590VP2 Chipset
- 1MB pipeline Burst SRAM Cache.
- 4/72-pin SIMM, 2/168-pin DIMM Sockets. (512MB max, EDO/SDRAM Support)
- 3/16-bit ISA, 4/32-bit PCI slots.
- LS-120, APM 1.2, FLASH EPROM, Plug & Play Support)
- Size: 4-layer Baby AT. 8.6"x11".

With No CPU...$105

With Intel Pentium® Processor

P5MMX-166MHz......$215 P5MM233MHz..........$275
P5MMX-200MHz......$225

With AMD-K6™ MMX Processor

K6 PR 200............ $205 K6 PR 233.................$245

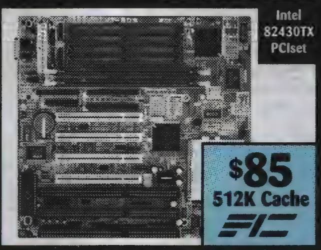
With CYRIX 6X86MX Processor

6x86MX PR200+..... $195 6x86MXPR233+.........$235

With IDT WinChip™C6™ Processor

WinChip C200.........$185

Intel 82430TX PCIset



$85 512K Cache

FIC VT-503

- Intel 82430TX PCI Chipset
- 512K Pipeline Burst Cache
- 4/72-Pin SIMM, 2/168-Pin DIMM sockets, up to 256MB DRAM
- 3 16-bit ISA, 4 32-bit PCI Slots one sharing
- APM 1.2; PnP Compliant; Flash EPROM; LS-120 support
- 2 dual-channeled Enhanced PCI Bus Master IDE connector; support PIO Mode 3&4 DMA Mode 2; Ultra DMA/33 support
- Size: 8.6"x9.05", Baby AT size 4-layer PCB

With No CPU...$85

With Intel Pentium® Processor

P5MMX-166MHz......$195 P5MM233MHz..........$255
P5MMX-200MHz......$205

With AMD-K6™ MMX Processor

K6 PR 200............ $185 K6 PR 233.................$225

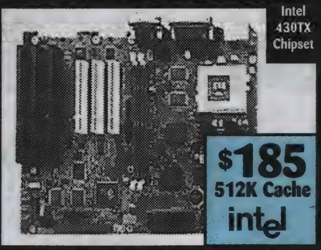
With CYRIX 6X86MX Processor

6x86MX PR200+..... $175 6x86MXPR233+.........$215

With IDT WinChip™C6™ Processor

WinChip C200.........$165

Intel 430TX Chipset



$185 512K Cache

INTEL AN430TX ANCHORAGE

- Intel 430TX PCI Chipset
- 512K Pipeline Burst Cache
- 2/168-Pin DIMM Sockets (256MB max, EDO capable)
- 3 ISA, 3 PCI Slots
- AMI PCI Flash Plug n Play BIOS
- Yamaha OPL3-SA3 Audio Subsystem
- IDE supports Ultra DMA 33 hard drives, 1 Floppy, 2 Serial, 1 Parallel, USB & Game Port
- Size: ATX Form Factor

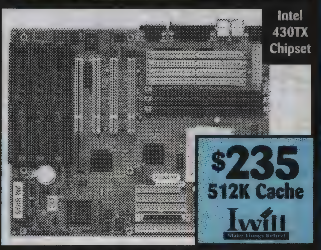
AN430TX ANCHORAGE ATX HAS
YAMAHA OPL3-SA3 AUDIO
WITH A TX CHIPSET

With No CPU...$185

With Intel Pentium® Processor

P5MMX-166MHz......$295 P5MM233MHz..........$355
P5MMX-200MHz......$305

Intel 430TX Chipset



$235 512K Cache

IWILL P55XUW

- Intel 430 TX Chipset, Support Ultra DMA33
- 4X SIMM & 3X DIMM Sockets (256MB max)
- 4X ISA, 4X PCI Slots
- 512K Cache, 2MB Flash ROM BIOS
- Adaptec Wide SCSI
- Size: 55mm x 305mm, ATX Form Factor.

Also available as an AT (P55XUBW) for only $235

With No CPU...$235

With Intel Pentium® Processor

P5MMX-166MHz......$345 P5MM233MHz..........$405
P5MMX-200MHz......$355

With AMD-K6™ MMX Processor

K6 PR 200............ $335 K6 PR 233.................$375

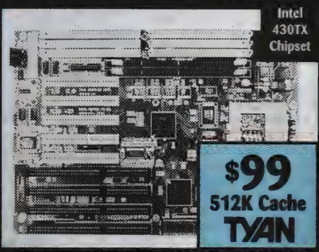
With CYRIX 6X86MX Processor

6x86MX PR200+..... $325 6x86MXPR233+.........$365

With IDT WinChip™C6™ Processor

WinChip C200.........$315

Intel 430TX Chipset



$99 512K Cache

TYAN TITAN TURBO S1571

- Intel TX PCI Chipset
- 512K Pipeline Burst Cache
- 6/72-Pin Sockets (256 max., EDO & Fast Page DRAM)
- 2/168-Pin DIMM Sockets
- 4 ISA, 5 PCI Slots
- Award PCI Flash Plug & Play BIOS
- 2 EIDE, 2 Floppy, 2 16550 Serial & 1 ECP/EPP Parallel Port, Optional PS/2 mouse connect & IR Port. Supports up to 4 IDE devices
- Size: 8.66"x13.25", Baby AT form factor

Also available TYAN TITAN TURBO S1573 (ATX)
for only $99

With No CPU...$99

With Intel Pentium® Processor

P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219

With AMD-K6™ MMX Processor

K6 PR 200............ $199 K6 PR 233.................$239

With CYRIX 6X86MX Processor

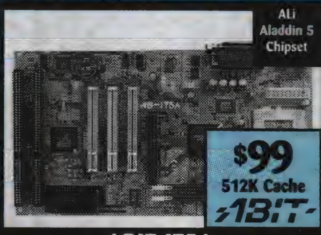
6x86MX PR200+..... $189 6x86MXPR233+.........$229

With IDT WinChip™C6™ Processor

WinChip C200.........$179

Socket 7 AGP Boards

ALi Aladdin 5 Chipset



$99 512K Cache

ABIT IT5A

- ALi Aladdin V Chipset, ABIT premier Socket 7 (586) motherboard
- 2 ISA slots, 3 PCI Slots & 1 AGP Slot
- 2 168-Pin DIMM sockets support SDRAM (256MB max)
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Ultra DMA/33 supported IDE protocol, supports AGP 66/133MHz
- PC 97 compliant, ATX form factor.

With No CPU...$99

With Intel Pentium® Processor

P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219

With AMD-K6™ MMX Processor

K6 PR 200............ $199 K6 PR 233.................$239

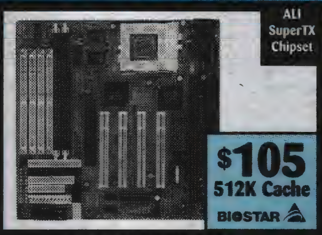
With CYRIX 6X86MX Processor

6x86MX PR200+..... $189 6x86MXPR233+.........$229

With IDT WinChip™C6™ Processor

WinChip C200.........$179

ALi SuperTX Chipset



$105 512K Cache

BIOSTAR M5ALA

- 512KB Second Level Cache
- ALI Super TX Chipset
- 4 72-Pin SIMM & 2 168-Pin SDRAM Sockets
- 256MB Max Memory
- 2 ISA slots, 4 PCI slots and 1 AGP slot
- Award BIOS, Ultra DMA Drives Support
- 1 Floppy, 2 Serial & 1 Parallel Port , 2 Bus Master IDE Ports
- AT Form Factor.

With No CPU...$105

With Intel Pentium® Processor

P5MMX-166MHz......$215 P5MM233MHz..........$275
P5MMX-200MHz......$225

With AMD-K6™ MMX Processor

K6 PR 200............ $205 K6 PR 233.................$245

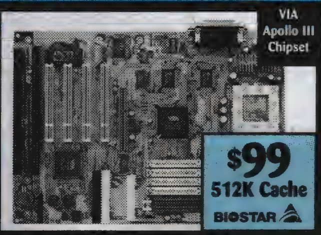
With CYRIX 6X86MX Processor

6x86MX PR200+..... $195 6x86MXPR233+.........$235

With IDT WinChip™C6™ Processor

WinChip C200.........$185

VIA Apollo III Chipset



$99 512K Cache

BIOSTAR M5VIA

- 512KB Pipeline Burst Cache
- VIA Apollo III, VT82C586/597 Chipset
- 2 72-Pin SIMM & 2 168-Pin DIMM Sockets
- Up to 128 MB Memory on board
- 3 16-bit ISA slots, 4 32-bit PCI slots and 1 AGP Bus Slot
- Award BIOS, Support Green, PnP, Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port , 2 USB, PS/2 mouse, Keyb.
- ATX Form Factor. 30.5cm x 22.5cm.

With No CPU...$99

With Intel Pentium® Processor

P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219

With AMD-K6™ MMX Processor

K6 PR 200............ $199 K6 PR 233.................$239

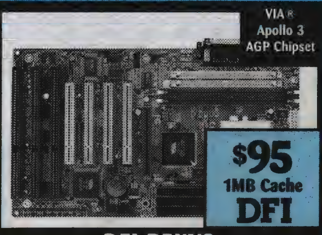
With CYRIX 6X86MX Processor

6x86MX PR200+..... $189 6x86MXPR233+.........$229

With IDT WinChip™C6™ Processor

WinChip C200.........$179

VIA® Apollo 3 AGP Chipset



$95 1MB Cache

DFI P5XV3

- VIA® Apollo 3 AGP Chipset, 1MB Pipeline Burst Cache
- 2 16-Bit ISA, 3 PCI & 1 shared PCI/ISA & 1 AGP slot
- 2 168-Pin DIMM & 2 72-Pin SIMM Sockets (256MB max)
- Award BIOS, Windows®95 Plug & Play compatible
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Accelerated Graphics Port
- Size: 11.81"x7.08", 4 layers, ATX form factor.

With No CPU...$95

With Intel Pentium® Processor

P5MMX-166MHz......$205 P5MM233MHz..........$265
P5MMX-200MHz......$215

With AMD-K6™ MMX Processor

K6 PR 200............ $195 K6 PR 233.................$235

With CYRIX 6X86MX Processor

6x86MX PR200+..... $185 6x86MXPR233+.........$225

With IDT WinChip™C6™ Processor

WinChip C200.........$175

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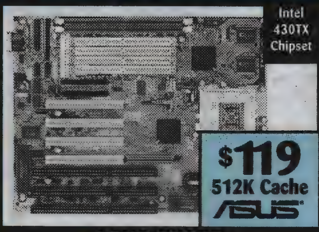


ASUS TX97E

- Intel 430TX PCI Chipset & 512K Pipeline Burst Cache
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max)
- 3 ISA, 4 PCI (one shared)
- Ultra DMA/33 Bus Master IDE @ 33MB/sec
- 1 Floppy, 2 Serial w/16550 & 1 Parallel Port w/ECP/EEP support, USB Port, Optional PS/2 support
- Size: 8.6"x11.1", 3/4 Baby AT Form Factor

(Also available TX97XWOA without audio for only $135)

With No CPU..........$119

With Intel Pentium® Processor

P5MMX-166MHz......$229 P5MM233MHz..........$289

P5MMX-200MHz......$239

With AMD-K6™ MMX Processor

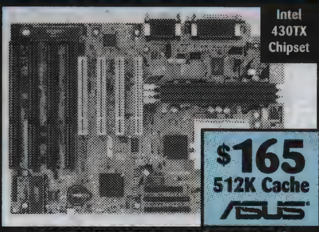
K6 PR 200............ $219 K6 PR 233................$259

With CYRIX 6X86MX Processor

6x86MX PR200+..... $209 6x86MXPR233+.........$249

With IDT WinChip™C6™ Processor

WinChip C200.........$199



ASUS TX97X with sound

- Intel 430TX PCI Chipset & 512K Pipeline Burst Cache
- 3/168-Pin DIMM Sockets (256MB max)
- 4 ISA, 4 PCI (one shared)
- Creative Labs ViBRA 16 PnP Audio w/Synthesizer
- Ultra DMA/33 Bus Master IDE @ 33MB/sec
- 1 Floppy, 2 Serial w/16550 & 1 Parallel Port w/ECP/EEP support, 2 USB, Optional PS/2 support
- Size: 8.3"x12", ATX Form Factor

(Also available as an ATX (TX97XE) for only $165)

With No CPU..........$165

With Intel Pentium® Processor

P5MMX-166MHz......$275 P5MM233MHz..........$335

P5MMX-200MHz......$285

With AMD-K6™ MMX Processor

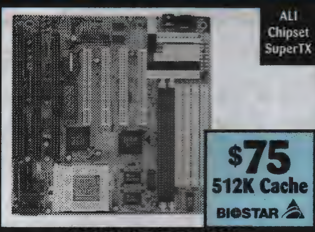
K6 PR 200............ $265 K6 PR 233................$305

With CYRIX 6X86MX Processor

6x86MX PR200+..... $255 6x86MXPR233+.........$295

With IDT WinChip™C6™ Processor

WinChip C200.........$245



BIOSTAR M5ATA

- Pentium 75~233MHz Super TX Mainboard
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max, EDO/BEDO DRAM capable)
- 3 16-Bit ISA, 4 32-Bit PCI Slots
- AMI BIOS DMI Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port , AT/PS/2 Keyboard (supports up to 4 IDE devices), Optional PS/2 mouse Port
- Size: 22cmx22cm, AT or ATX Power Connector.

With No CPU.......... $75

With Intel Pentium® Processor

P5MMX-166MHz......$185 P5MM233MHz..........$245

P5MMX-200MHz......$195

With AMD-K6™ MMX Processor

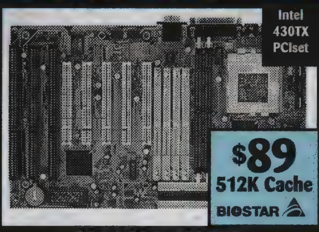
K6 PR 200............ $175 K6 PR 233................$215

With CYRIX 6X86MX Processor

6x86MX PR200+..... $165 6x86MXPR233+.........$205

With IDT WinChip™C6™ Processor

WinChip C200.........$155



BIOSTAR M5TTB

- Supports Intel Pentium /P54C, P55C/MMX Technology
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max, EDO/BEDO DRAM capable)
- 3 16-bit ISA, 5 32-bit PCI Slots
- Award BIOS DMI Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port , PS/2 Keyboard (supports up to 4 IDE devices), Ultra DMA/33
- Size: 30.5cmX19cm, AT or ATX Power Connector.

With No CPU..........$89

With Intel Pentium® Processor

P5MMX-166MHz......$199 P5MM233MHz..........$259

P5MMX-200MHz......$209

With AMD-K6™ MMX Processor

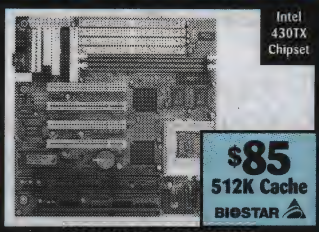
K6 PR 200............ $189 K6 PR 233................$229

With CYRIX 6X86MX Processor

6x86MX PR200+..... $179 6x86MXPR233+.........$219

With IDT WinChip™C6™ Processor

WinChip C200.........$169



BIOSTAR 8500TTD

- Pentium 75~200MHz 430TX Mainboard
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max, EDO/BEDO DRAM, 3V Unbuffered SDRAM)
- 3 16-Bit ISA, 4 32-Bit PCI Slots
- Award BIOS DMI Flash EPROM
- 2 Serial & 1 Parallel Port, AT/PS/2 Keyboard Conn. (supports up to 4 IDE devices), Optional PS/2 mouse Port
- Size: 22cm x 24cm.

With No CPU..........$85

With Intel Pentium® Processor

P5MMX-166MHz......$195 P5MM233MHz..........$255

P5MMX-200MHz......$205

With AMD-K6™ MMX Processor

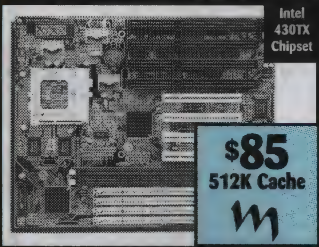
K6 PR 200............ $185 K6 PR 233................$225

With CYRIX 6X86MX Processor

6x86MX PR200+..... $175 6x86MXPR233+.........$215

With IDT WinChip™C6™ Processor

WinChip C200.........$165



MTI R539

- Intel 430TX Chipset
- 512K Piplined Burst Cache
- 4/72-Pin SIMM Sockets (256 max., EDO capable)
- 2x168-Pin DIMM Sockets, 4 ISA, 4 PCI Slots
- Flash ROM BIOS w/ Green, Plug & Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, AT Keyboard & PS/2 Mouse Port (cable included)
- Size: 8.7"x12.2", Baby AT Form Factor

Also available MTI MIG-R557 ATX for $105

With No CPU..........$85

With Intel Pentium® Processor

P5MMX-166MHz......$195 P5MM233MHz..........$255

P5MMX-200MHz......$205

With AMD-K6™ MMX Processor

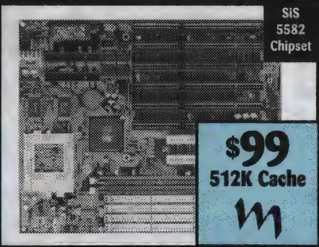
K6 PR 200............ $185 K6 PR 233................$225

With CYRIX 6X86MX Processor

6x86MX PR200+..... $175 6x86MXPR233+.........$215

With IDT WinChip™C6™ Processor

WinChip C200.........$165



MTI MUSTANG-R547

- SiS 5582 Chipset
- 512K Pipeline Burst Cache
- 4/72-Pin SIMM Sockets (256 max., EDO capable)
- 2x168-Pin DIMM Sockets
- 6 ISA, 2 PCI Slots
- Flash ROM BIOS with Green, Plug&Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, AT Keyboard & PS/2 Mouse Port (cable included)
- Size: 8.7"x9.8", Baby ATX Form Factor

With No CPU..........$99

With Intel Pentium® Processor

P5MMX-166MHz......$209 P5MM233MHz..........$269

P5MMX-200MHz......$219

With AMD-K6™ MMX Processor

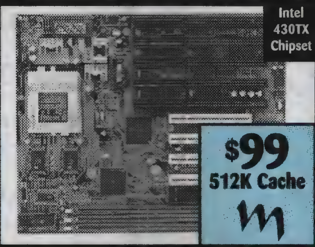
K6 PR 200............ $199 K6 PR 233................$239

With CYRIX 6X86MX Processor

6x86MX PR200+..... $189 6x86MXPR233+.........$229

With IDT WinChip™C6™ Processor

WinChip C200.........$179



MTI-R541

- Intel 430TX (82439TX, 82371AB) PCI Chipset
- 512K Pipeline Burst Cache
- 3x168-Pin DIMM SDRAM Socket
- 5 ISA, 4 PCI Slots
- Flash ROM BIOS with Green, Plug&Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, AT Keyboard & PS/2 Mouse Port
- Size: 8.7"x12.2", Baby AT Form Factor

With No CPU..........$99

With Intel Pentium® Processor

P5MMX-166MHz......$209 P5MM233MHz..........$269

P5MMX-200MHz......$219

With AMD-K6™ MMX Processor

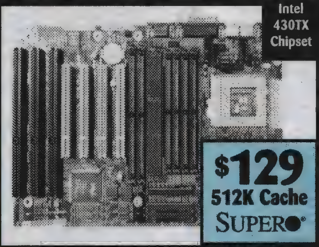
K6 PR 200............ $199 K6 PR 233................$239

With CYRIX 6X86MX Processor

6x86MX PR200+..... $189 6x86MXPR233+.........$229

With IDT WinChip™C6™ Processor

WinChip C200.........$179



SUPERMICRO P5MMA98

- Intel 430TX PCI Chipset
- 512K Pipeline Burst Cache
- 4/72-Pin SIMM Sockets (256 max., EDO capable)
- 2/168 Pin DIMM Sockets
- 4 ISA, 4 PCI Slots
- AMI PCI Flash Plug & Play BIOS
- 1 Floppy, 2 UART 16550 Serial, 1 ECP/EPP Parallel, 2 USB, Optional IR & PS/2 Mouse
- Universal Serial Bus Port, 2 PCI EIDE interfaces
- Size: 12"x8.3", ATX form factor

With No CPU..........$129

With Intel Pentium® Processor

P5MMX-166MHz......$239 P5MM233MHz..........$299

P5MMX-200MHz......$249

With AMD-K6™ MMX Processor

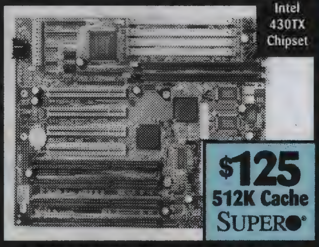
K6 PR 200............ $229 K6 PR 233................$269

With CYRIX 6X86MX Processor

6x86MX PR200+..... $219 6x86MXPR233+.........$259

With IDT WinChip™C6™ Processor

WinChip C200.........$209



SUPERMICRO P5MMS98

- Intel 430TX PCI Chipset
- 512K Pipeline Burst Cache
- 4/72-Pin Sockets (128 max., EDO & Fast Page DRAM)
- 2/168-Pin DIMM Sockets
- 4 ISA, 4 PCI Slots (1 Shared)
- AMI PCI Flash Plug & Play BIOS
- 1 Floppy, 2 UART 16550 Serial, 1 ECP/EPP Parallel, 2 USB, Optional IR & PS/2 Mouse
- Universal Serial Bus Port, 2 PCI EIDE interfaces
- Size: 11"x8.85"; Baby AT form factor

With No CPU..........$125

With Intel Pentium® Processor

P5MMX-166MHz......$235 P5MM233MHz..........$295

P5MMX-200MHz......$245

With AMD-K6™ MMX Processor

K6 PR 200............ $225 K6 PR 233................$265

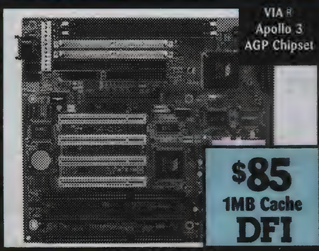
With CYRIX 6X86MX Processor

6x86MX PR200+..... $215 6x86MXPR233+.........$255

With IDT WinChip™C6™ Processor

WinChip C200.........$205

Socket 7 AGP Boards



DFI P5BV3

- VIA® Apollo 3 AGP Chipset, 1MB Pipeline Burst Cache
- 2 16-Bit ISA, 3 PCI & 1 shared PCI/ISA & 1 AGP slot
- 2 168-Pin DIMM & 2 72-Pin SIMM Sockets (256MB max)
- Award BIOS, Windows®95 Plug & Play compatible
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Accelerated Graphics Port
- Size: 9.84" x 8.66", 4 layers, Baby AT form factor.

With No CPU..........$85

With Intel Pentium® Processor

P5MMX-166MHz......$195 P5MM233MHz..........$255

P5MMX-200MHz......$205

With AMD-K6™ MMX Processor

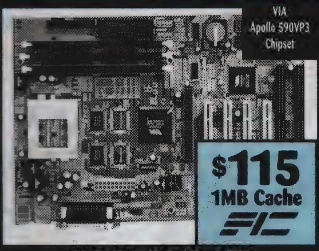
K6 PR 200............ $185 K6 PR 233................$225

With CYRIX 6X86MX Processor

6x86MX PR200+..... $175 6x86MXPR233+.........$215

With IDT WinChip™C6™ Processor

WinChip C200.........$165



FIC PA-2012 ATX

- VIA Apollo 590VP3 Chipset
- Onboard 256/512K/1MB Pipeline Burst Cache
- 3/168-Pin DIMM Sockets support 3.3V EDO & SDRAM Supports up to 384MB DRAM
- 2 16-bit ISA, 5 32-bit PCI, 1 64-bit AGP Slots
- APM 1.2; Plug and Play, DMI 2.0 compliant Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port, Ultra DMA/33 PCI IDE
- Size: 12"x8.8", ATX-size 4-layer PCB

With No CPU..........$115

With Intel Pentium® Processor

P5MMX-166MHz......$225 P5MM233MHz..........$285

P5MMX-200MHz......$235

With AMD-K6™ MMX Processor

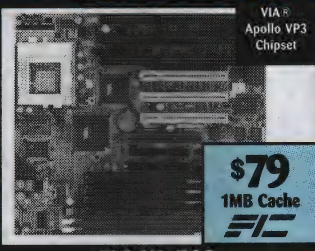
K6 PR 200............ $215 K6 PR 233................$255

With CYRIX 6X86MX Processor

6x86MX PR200+..... $205 6x86MXPR233+.........$245

With IDT WinChip™C6™ Processor

WinChip C200.........$195



FIC VA-503

- VIA® Apollo VP3 Chipset, 1MB Pipeline Burst Cache
- 1 x 64-bit AGP, 3 x 32-bit PCI, & 3 x 16-bit ISA
- 2 DIMM & 4 SIMM Sockets Support up to 512MB RAM
- APM 1.2; PnP compliant; DMI 2.0; Flash EPROM
- Winbond 83977TF 2 serial ports w/ 16550 UART/IrDA support; Optional FIR support; 1 Parallel port w/ ECP/EPP support
- Ultra DMA/33 PIO Mode4; DMA Mode 2
- Size: 9.2" x 8.6", 4 layers PCB, Baby AT form factor.

With No CPU..........$79

With Intel Pentium® Processor

P5MMX-166MHz......$189 P5MM233MHz..........$249

P5MMX-200MHz......$199

With AMD-K6™ MMX Processor

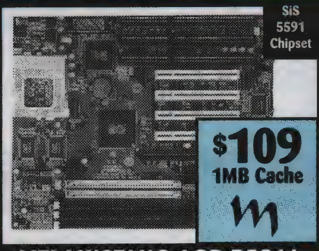
K6 PR 200............ $179 K6 PR 233................$219

With CYRIX 6X86MX Processor

6x86MX PR200+..... $169 6x86MXPR233+.........$209

With IDT WinChip™C6™ Processor

WinChip C200.........$159



MTI MUSTANG AGP-R581A

- SiS 5591 Chipset, ATA-33 or DMA/33 support, AGP support
- 1MB Pipeline Burst SRAM Cache
- 2 72-Pin SIMM Sockets (supports from 4MB to 256MB)
- 3 168-Pin DIMM SDRAM (or DRAM) Sockets
- 4 32-bit PCIslots, 3 16-bit ISA slots, 1 AGP slot
- Flash ROM BIOS with Green, Plug&Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, PS/2 Mouse Port, Supports Ultra IDE Mode
- Size: 8.7"x9.8", Baby ATX Form Factor, 4 layer PCB.

With No CPU..........$109

With Intel Pentium® Processor

P5MMX-166MHz......$219 P5MM233MHz..........$279

P5MMX-200MHz......$229

With AMD-K6™ MMX Processor

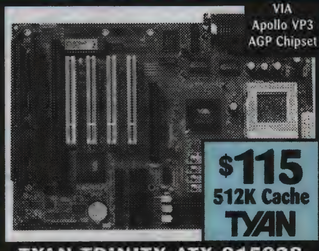
K6 PR 200............ $209 K6 PR 233................$249

With CYRIX 6X86MX Processor

6x86MX PR200+..... $199 6x86MXPR233+.........$239

With IDT WinChip™C6™ Processor

WinChip C200.........$189



TYAN TRINITY ATX S1592S

- VIA Apollo VP3 Socket 7 AGP Chipset
- Up to 512KB Second level Cache
- 3 168-Pin DIMM Sockets, 4 72-pin SIMM Socket
- 4 PCI, 3 ISA slots, 1 32-bit AGP slot
- Ultra DMA/33 drive support
- On-board PCI EIDE & Super I/O- Dual Channel PCI Bus Mastering ports, Floppy, 2 Serial, 1 Parallel & Twin USB ports
- ATX form factor

With No CPU..........$115

With Intel Pentium® Processor

P5MMX-166MHz......$225 P5MM233MHz..........$285

P5MMX-200MHz......$235

With AMD-K6™ MMX Processor

K6 PR 200............ $215 K6 PR 233................$255

With CYRIX 6X86MX Processor

6x86MX PR200+..... $205 6x86MXPR233+.........$245

With IDT WinChip™C6™ Processor

WinChip C200.........$195

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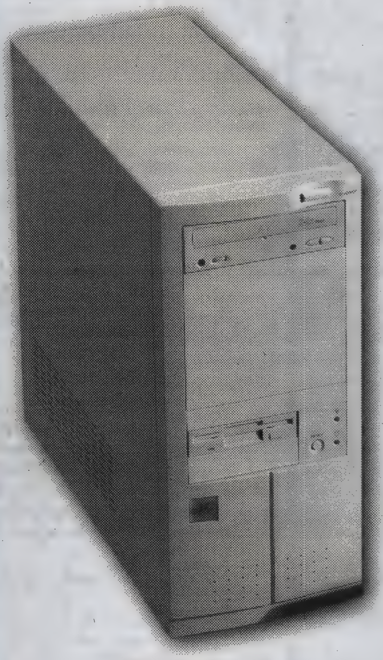
Enlight Mid Tower ATX Case
Shown with Optional CD-ROM & Floppy Drive

The New LX Advantage Pack

- Abit AH6 Pentium® II ATX Motherboard
- 32MB SDRAM
- Matrox Productiva G100 8MB AGP Video Card
- Enlight Mid-tower ATX Case with 300 Watt Power Supply
- Microsoft mouse 2.0

W/ Intel Pentium® II 233MHz Chip	**$609**
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W/ Intel Pentium® II 300MHz Chip	**$819**
W/ Intel Pentium® II 333MHz Chip	**$985**

The Dual LX Advantage Pack

- SuperMicro P6DLE Dual Motherboard w/ Intel 440LX Chipset
- 64MB SDRAM
- Diamond FIRE GL 1000 PRO AGP Graphics 8MB Video Card
- Mid-tower case with 250 Watt Power Supply
- Microsoft mouse 2.0

Dual Pentium® II 233MHz	**$1169**
Dual Pentium® II 266MHz	**$1339**
Dual Pentium® II 300MHz	**$1589**
Dual Pentium® II 333MHz	**$1899**

The Extreme Advantage Pack

- ASUS TX97 Intel 430TX Chipset Motherboard
- 512K Pipeline Burst Cache
- 32MB SDRAM
- Matrox Millenium II 8MB Video Card
- Enlight Mid-tower AT case with 250 watt power supply
- Microsoft mouse 2.0

GET THIS SAME PACKAGE WITH THE TX97X ATX MOTHERBOARD WITH BUILT IN SOUND FOR ONLY $30 MORE
(Price includes change of case to ATX)

Pentium® 166MHz Chip w/MMX	**$585**
Pentium® 200MHz Chip w/MMX	**$595**
Pentium® 233MHz Chip w/MMX	**$645**
AMD-K6™ PR 200 Chip w/MMX	**$575**
AMD-K6™ PR 233 Chip w/MMX	**$615**
Cyrix 6x86MX PR200+ Chip w/MMX	**$565**
Cyrix 6x86MX PR233+ Chip w/MMX	**$599**
IDT WinChip™ C200 Chip w/MMX	**$555**

The AGP Advantage Pack

- VIA Apollo 590VP3 Chipset Motherboard
- 1MB Pipeline Burst Cache
- 32MB SDRAM
- Matrox Productiva G100 4MB AGP Video Card
- Enlight Mid-tower ATX case with 300 watt power supply
- Microsoft mouse 2.0

1MB CACHE, AGP VIDEO, VIA VP3 CHIPSET

Pentium® 166MHz Chip w/MMX	**$409**
Pentium® 200MHz Chip w/MMX	**$419**
Pentium® 233MHz Chip w/MMX	**$469**
AMD-K6™ PR 200 Chip w/MMX	**$399**
AMD-K6™ PR 233 Chip w/MMX	**$439**
Cyrix 6x86MX PR200+ Chip w/MMX	**$395**
Cyrix 6x86MX PR233+ Chip w/MMX	**$429**
IDT WinChip™ C200 Chip w/MMX	**$385**

The Plus Advantage Pack

- Intel 430TX Chipset Motherboard
- 512K Pipeline Burst Cache
- 32MB SDRAM
- Matrox Mystique 3D 220 2MB SGRAM Video Card
- Enlight Mid-tower case with 250 watt power supply
- Microsoft mouse 2.0

UPGRADE TO MATROX MYSTIQUE 3D 220 W/ 4MB ADD $20

Pentium® 166MHz Chip w/MMX	**$415**
Pentium® 200MHz Chip w/MMX	**$425**
Pentium® 233MHz Chip w/MMX	**$475**
AMD-K6™ PR 200 Chip w/MMX	**$405**
AMD-K6™ PR 233 Chip w/MMX	**$445**
Cyrix 6x86MX PR200+ Chip w/MMX	**$395**
Cyrix 6x86MX PR233+ Chip w/MMX	**$435**
IDT WinChip™ C200 Chip w/MMX	**$389**

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HARD DRIVE CONTROLLERS

Promise-ULTRA 33-33MB/sec Data transfer for ATA/DMA & EIDE Drives	ULTRA33	**$65**
Promise-EIDE PRO-Up to 4 Drives 16550 UART, EPP/ECP	EIDEPRO	**$48**
Promise FLOPPYMAX Bootable ATAPI Controller for 3.5" LS-120 Floppy Drive (see TC page 9)	FLOPPYMAX	**$29**
Promise-EIDEMAX 16-bit Enhanced IDE Controller	EIDEMAX	**$25**
Adaptec A3940UWK Ultra Wide Multichannel SCSI PCI	AHA3940UWK	**$479**
Adaptec A2940UWK Ultra Wide SCSI PCI Kit	AHA2940UWK	**$289**
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Adaptec AAA130/3 Three Channel Ultra SCSI Array Adapter, supports RAID 0, 1, 0/1 & 5	AAA133	**$729**
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Data Technology ISA with IDEIO &16550 Fast UART	DTC2280E	**$23**
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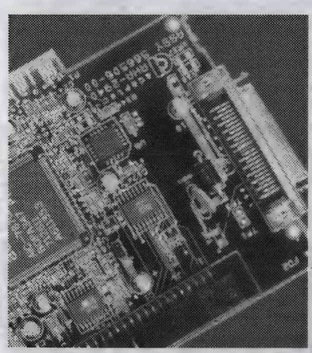
PromisePremier SCSIULTRA Controller, Fast 20-SCSI, 40MB/sec (sync) & 14MB/sec (async) trans.	SCSIULTRA	**$179**



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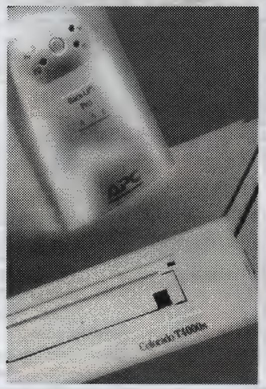
Iomega 100 MB ZIP drive, 29ms access, 1MB/sec transfer Parallel	IOZIPPAR	**$147**
Iomega 100 MB ZIP drive, 29ms access, 1MB/sec transfer Internal IDE OEM	ZIPOEM	**$89**
Iomega 100MB Removable ZIP Tape Cartridge	ZIPTAPE	**$12**
IOMEGA JAZ 1 GIGABYTE REMOVABLE		
Iomega 1 Gig. External, 6.73Mb transfer, 17ms access 256K buffer SCSI	IOJAZSCSIE	**$399**
Iomega 1 Gig. Internal, 6.73Mb transfer, 17ms access 256K buffer SCSI	IOJAZSCSI	**$295**
COLORADO TAPE BACKUPS		
Hewlett Packard Colorado T3000 Up to 3.2 Gig.1 Tape included	T3000	**$169**
Hewlett Packard Colorado T4S Internal Up to 4 Gig.1 Tape included	T4I	**$375**
Hewlett Packard Colorado T4E External Up to 8 Gig.1 Tape included	T4E	**$459**
TAPE BACKUP - INTERNAL DAT DRIVES (3.5")		
Seagate Scorpion DAT 4GIG, 1MB Buffer, Transfer rate 1,100KB/sec, 30ms access	STD24000N	**$589**
Seagate Scorpion DAT 8GIG, 1MB Buffer, Transfer rate 1,100KB/sec, 30ms access	STD28000N	**$775**
Seagate Scorpion DAT 12GIG, 2MB Buffer, Transfer rate 2,200KB/sec, 30ms access	STD224000N	**$1039**



Battery Backups

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AMERICAN POWER CONVERSION

AMERICAN POWER CONVERSION

APC BP280PNP- 280 VA Capacity P&P	BP280PNP	**$139**
APC BP650PNP- 650 VA Capacity P&P	BP650PNP	**$279**
APC BK280B- 280 VA Capacity	BK280B	**$99**
APC BK600B- 600 VA Capacity	BK600B	**$235**
APC Smart-UPS v/s 420 w/ Power Chute Software	SU420NET	**$245**
APC Smart-UPS v/s 620 w/ Power Chute Software	SU620NET	**$299**
APC Smart-UPS v/s 1000 w/ Power Chute Software	SU1000NET	**$505**
APC Smart-UPS v/s 1400 w/ Power Chute Software	SU1400NET	**$649**
APC Back-Ups Office v/s 420 w/ Power Chute Software	BF250	**$109**

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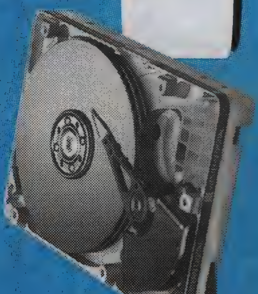
IDE Hard Drives

Capacity	Model	Cache	Access	RPM	Interface	Mfr.'s Warranty	Product Code	Price
Seagate								
3.2 GIG	Medalist	128K	12ms	4,500	Ultra DMA/33	3 Year	ST33232A	**$161**
4.3 GIG	Medalist	128K	12ms	4,500	Ultra DMA/33	3 Year	ST34342A	**$180**
6.4 GIG	Medalist	128K	12ms	4,500	Ultra DMA/33	3 Year	ST36451A	**$244**
8.6 GIG	Medalist	128K	10.5ms	5,400	Ultra DMA/33	3 Year	ST38641A	**$337**
Quantum								
2.1 GIG	Fireball SE	128K	10ms	5,400	Ultra DMA/33	3 Year	QTM32100A	**$135**
3.2 GIG	Fireball SE	128K	10ms	5,400	Ultra DMA/33	3 Year	QTM33200A	**$178**
4.3 GIG	Fireball SE	128K	10ms	5,400	Ultra DMA/33	3 Year	QTM34300A	**$194**
6.4 GIG	Fireball SE	128K	10ms	5,400	Ultra DMA/33	3 Year	QTM36400A	**$255**
8.4 GIG	Fireball SE	128K	10ms	5,400	Ultra DMA/33	3 Year	QTM38400A	**$338**
4 GIG	Bigfoot TX	128K	12ms	4,000	Ultra DMA/33	3 Year	QTM504000A	**$181**
6 GIG	Bigfoot TX	128K	12ms	4,000	Ultra DMA/33	3 Year	QTM506000A	**$236**
8 GIG	Bigfoot TX	128K	12ms	4,000	Ultra DMA/33	3 Year	QTM508000A	**$259**
12 GIG	Bigfoot TX	128K	12ms	4,000	Ultra DMA/33	3 Year	QTM512000A	**$356**
WESTERN DIGITAL								
2.1 GIG	Caviar	256K	9.5ms	5,400	Ultra DMA/33	3 Year	WD22100AU	**$138**
3.2 GIG	Caviar	256K	11ms	5,400	Ultra DMA/33	3 Year	WD23200A	**$162**
4.3 GIG	Caviar	256K	9.5ms	5,400	Ultra DMA/33	3 Year	WD34300A	**$191**
5.1 GIG	Caviar	256K	11ms	5,400	Ultra DMA/33	3 Year	WD35100A	**$206**
6.4 GIG	Caviar	256K	11ms	5,400	Ultra DMA/33	3 Year	WD36400A	**$253**
IBM								
4.3 GIG	Deskstar	512K	9.5ms	5,400	Ultra DMA/33	3 Year	00K0357	**$214**
6.4 GIG	Deskstar	215K	9.5ms	5,400	Ultra DMA/33	3 Year	00K0355	**$252**
8.4 GIG	Deskstar	512K	9.5ms	5,400	Ultra DMA/33	3 Year	00K0394	**$339**



SCSI Hard Drives

Capacity	Model	Cache	Access	RPM	Interface	Mfr.'s Warranty	Product Code	Price
Seagate								
2.2 GIG	Barracuda	512K	8ms	7,200	Ultra SCSI	5 Year	ST32272N	**$323**
2.2 GIG	Barracuda	512K	8ms	7,200	Ultra Wide SCSI	5 Year	ST32272W	**$350**
4.5 GIG	Barracuda	512K	8ms	7,200	Ultra SCSI	5 Year	ST34572N	**$490**
4.5 GIG	Barracuda	512K	8ms	7,200	Ultra Wide SCSI	5 Year	ST34572W	**$518**
9.1 GIG	Barracuda	512K	7.1ms	7,200	Ultra SCSI	5 Year	ST39173N	**$815**
9.1 GIG	Barracuda	512K	7.1ms	7,200	Ultra Wide SCSI	5 Year	ST39173W	**$815**
18.2 GIG	Barracuda	512K	7.1ms	7,200	Ultra SCSI	5 Year	ST118273N	**$1463**
18.2 GIG	Barracuda	512K	7.1ms	7,200	Ultra Wide SCSI	5 Year	ST118273W	**$1463**
4.5 GIG	Cheetah	512K	7.5ms	10,033	Ultra SCSI	5 Year	ST34501N	**$543**
4.5 GIG	Cheetah	512K	7.5ms	10,033	Ultra Wide SCSI	5 Year	ST34501W	**$570**
9.1 GIG	Cheetah	512K	8ms	10,033	Ultra SCSI	5 Year	ST19101N	**$872**
9.1 GIG	Cheetah	512K	8ms	10,033	Ultra Wide SCSI	5 Year	ST19101W	**$900**
23 GIG	Elite	2048K	13ms	5,400	Ultra SCSI	5 Year	ST423451N	**$1501**
23 GIG	Elite	2048K	13ms	5,400	Ultra Wide SCSI	5 Year	ST423451W	**$1530**
Quantum								
3.2 GIG	Fireball SE	128K	10ms	5,400	Ultra SCSI	3 Year	QTM33200S	**$237**
4.3 GIG	Fireball SE	128K	10ms	5,400	Ultra SCSI	3 Year	QTM34300S	**$271**
6.4 GIG	Fireball SE	128K	10ms	5,400	Ultra SCSI	3 Year	QTM36400S	**$353**
8.4 GIG	Fireball SE	128K	10ms	5,400	Ultra SCSI	3 Year	QTM38400S	**$457**
2.2 GIG	Viking	512K	8ms	7,200	Ultra Wide SCSI	5 Year	QTM32275SW	**$231**
4.5 GIG	Viking	512K	8ms	7,200	Ultra Wide SCSI	5 Year	QTM34550SW	**$347**
9.1 GIG	Atlas	1024K	8ms	7,200	Ultra Wide SCSI	5 Year	QTM39100SW	**$751**
WESTERN DIGITAL								
2.1 GIG	Enterprise	512K	8ms	7,200	Ultra SCSI	5 Year	WD2170SB	**$327**
2.1 GIG	Enterprise	512K	8ms	7,200	Ultra Wide SCSI	5 Year	WD2170WB	**$348**
4.3 GIG	Enterprise	512K	8ms	7,200	Ultra SCSI	5 Year	WD4360SB	**$505**
4.3 GIG	Enterprise	512K	8ms	7,200	Ultra Wide SCSI	5 Year	WD4360WB	**$527**
9.1 GIG	Enterprise	512K	11ms	7,200	Ultra Narrow SCSI	3 Year	WD9100SB	**$747**
9.1 GIG	Enterprise	512K	11ms	7,200	Ultra Wide SCSI	3 Year	WD9100WB	**$768**
IBM								
2.1 GIG	Ultrastar	512K	8.5ms	5,400	Ultra Wide SCSI	5 Year	03L5652	**$179**
4.3 GIG	Ultrastar	512K	8.5ms	5,400	Ultra Wide SCSI	5 Year	03L5653	**$277**

(Call for Ultra SCSI 2 availability)

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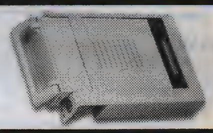

Removeable Frame for 3.5" H.D.D., Compatible w/ any make of Tower case, Desktop PC External Subsystem & RAID system cases, Data portability between office and/or house, easy installation & backup, High Data-Security & Privacy, Convenient data administration & sharing, Convenient pull-out handle, Auto-close door design, LED indicators for Power & HDD, For 1.0" HT. 2.5/3.5" HDD, Dimensions: 8.4x5.8x1.6 inch (D/W/H), IDE/SCSI-I/SCSI-II/WIDE-SCSI interface.

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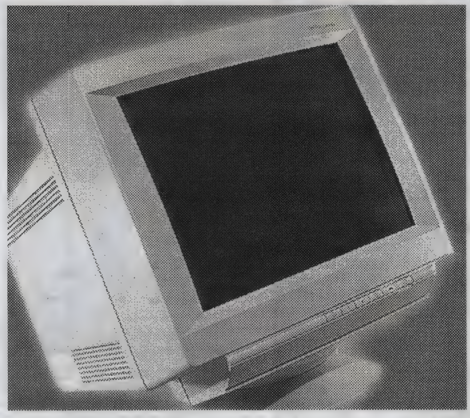


MAG DX15T	**15"** (14" viewable) 1280x1024 Trinitron SVGA w/Plug & Play	DX15T	**$319**
MAG DX700T	**17"** (16" viewable) 1280x1024 Trinitron SVGA w/P & P, Digital display	DX700T	**$549**
MAG DJ530	**15"** (13.9" viewable) 1280x1024 SVGA With JAG controls	DJ530	**$255**
MAG DJ700	**17"** (16.1" viewable) 1280x1024 SVGA With JAG controls	DJ700	**$509**
MAG DJ920	**21"** (20" viewable) 1600x1280 SVGA With JAG controls	DJ920	**$1199**
ViewSonic	**17"** (16" viewable) GS 1280x1024 .27 dot pitch, Plug & Play	G771	**$455**
ViewSonic	**17"** (16" viewable) 1280x1600 .25mm dot pitch, Plug & Play	P775	**$569**
ViewSonic	**21"** (20" viewable) P810 1600x1280 .25 dot pitch, Plug & Play	P810	**$1129**
Princeton	**15"** (13.8" viewable)1280x1024 Non-interlaced, Non-glare ENERGY STAR	ULTRA51	**$209**
Princeton	**17"** (15.8" viewable) 1280x1024 Non-interlaced, .28mm dot pitch, Non-glare ENERGY STAR	ULTRA72	**$349**
Princeton	**17"** (15.8" viewable) 1280x1024 Non-interlaced, .26mm dot pitch, Microfilter FST w/anti-glare	E072	**$469**
Princeton	**19"** (18" viewable) 1600x1200, .26mm dot pitch, dark-tinted, AART coated, anti-static	E090	**$695**

Other Monitors

CyberVision C40	**14"** (13.2" viewable) .28mm dot pitch 1024x768 Max Res., Low Radiation, Plug & Play, Digital Controls	C40	**$149**
CyberVision C52	**15"** (13.8" viewable) .28mm dot pitch 1024x1024 Max Res., Anti-Glare/Anti-Static, Digital Controls	C52	**$179**
CyberVision C70	**17"** (16.0" viewable) .27mm dot pitch 1280x1024 Max Res., Anti-Glare/Anti-Static, Digital Controls	C70	**$319**

Video Cards

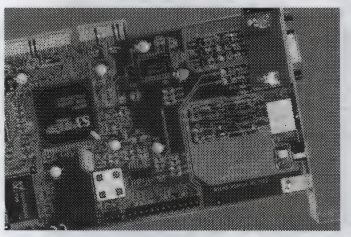
DIAMOND matrox ATi

PCI Video Cards

		Price with motherboard purchase	Price when purchased alone
Diamond Stealth 3D Pro 2000 2MB EDO RAM S3 Virge-DX	S3DPRO2	**$57**	**$59**
Diamond Stealth 3D Pro 2400 4MB EDO RAM S3 Virge-DX	S3DPRO4	**$70**	**$73**
Diamond Stealth II S220 PCI 4MB SGRAM Outrageous 2D/3D Windows Acceleration	S2S220	**$93**	**$98**
Diamond Viper 330 PCI 4MB SGRAM True 128-bit Multimedia	V330PCI	**$143**	**$150**
Diamond Fire GL 1000 Pro PCI **4MB** SGRAM 2D/3D Multimedia Graphics	GLPRO4PCI	**$132**	**$138**
Diamond Fire GL 1000 Pro PCI **8MB** SGRAM 2D/3D Multimedia Graphics	GLPRO8PCI	**$167**	**$174**
NEW **Diamond Monster 3D II** PCI **8MB** 3Dfx Voodoo™ 2 Chipset	MON3D/8	**$211**	**$221**
NEW **Diamond Monster 3D II** PCI **12MB** 3Dfx Voodoo™ 2 Chipset	MON3D/12	**CALL**	**CALL**
Matrox Millenium II 4MB WRAM PCI Upgrades to 16MB WRAM	MIL2P/4N	**$171**	**$179**
Matrox Millenium II 8MB WRAM PCI Upgrades to 16MB WRAM	MIL2P/8N	**$237**	**$248**
Matrox Mystique 220 BUSINESS 2MB SGRAM PCI	MY220PB/2N	**$81**	**$85**
Matrox Mystique 220 BUSINESS 4MB SGRAM PCI	MY220PB/4N	**$106**	**$110**
Matrox Mystique 220 2MB SGRAM PCI	MY220P/2N	**$81**	**$85**
Matrox Mystique 220 4MB SGRAM PCI	MY220P/4N	**$106**	**$110**
Matrox Rainbow Runner Studio Video Editing for Mystique or Millennium II	MYST/RRSTN	**$182**	**$191**
Matrox Rainbow Runner TV Tuner for TV on your PC, plugs into Rainbow Runner	MYST/RRTVN	**$73**	**$77**
Matrox m3D 4MB SGRAM for PCI & AGP systems w/ compatible PCI slots	M3D	**$93**	**$98**
ATI TV-TV Tuner Module with Video Capture	ATITV	**$83**	**$87**
ATI All-in-Wonder Pro PCI **4MB**, Complete 7-in-1 TV, Graphics & Multimedia Board	WONDERPRO4	**$203**	**$213**
ATI All-in-Wonder Pro PCI **8MB**, Complete 7-in-1 TV, Graphics & Multimedia Board	WONDERPRO8	**$247**	**$258**
ATI XPERT @Play 3D PCI **4MB** SGRAM Gaming Applications	XPERTP4	**$140**	**$147**
ATI XPERT @Play 3D PCI **8MB** SGRAM Gaming Applications	XPERTP8	**$180**	**$188**
ATI XPERT@Work 3D PCI **4MB** SGRAM Business Applications	XPERTW4	**$117**	**$122**
ATI XPERT@Work 3D PCI **8MB** SGRAM Business Applications	XPERTW8	**$157**	**$164**
ATI RAGE 2MB 3D EDO PCI	RAGE2	**$43**	**$45**
CIRRUS Logic 1MB PCI DRAM	CRPCI1	**$21**	**$22**
TRIDENT 1MB PCI DRAM	TRIPCI1	**$21**	**$22**

AGP Video Cards

		Price with motherboard purchase	Price when purchased alone
ASUS AGP-V3000(3DexPlorer 3000) 4MB SGRAM AGP, Hi-performance 3D/2D Graphics	AGPV3000	**$117**	**$122**
Diamond Viper 330 AGP 4MB SGRAM True 128-bit Multimedia	V330AGP	**$160**	**$167**
Diamond Fire GL 1000 Pro AGP **4MB** SGRAM 2D/3D Multimedia Graphics	GLPRO4AGP	**$143**	**$150**
Diamond Fire GL 1000 Pro AGP **8MB** SGRAM 2D/3D Multimedia Graphics	GLPRO8AGP	**$178**	**$186**
Diamond Stealth 3D 4000 AGP **2MB** SGRAM Fixed	S3D4K2	**$61**	**$64**
Diamond Stealth 3D 4000 AGP **4MB** SGRAM Fixed	S3D4K4	**$76**	**$79**
Matrox Millenium II 4MB WRAM AGP	MIL2A/4BN	**$147**	**$153**
Matrox Millenium II 8MB WRAM AGP	MIL2A/8BN	**$202**	**$212**
Matrox G100 Productiva 4MB AGP SGRAM	G100A/4BN	**$69**	**$72**
Matrox G100 Productiva 8MB AGP SGRAM	G100A/8BN	**$87**	**$84**
ATI XPERT@Work AGP 2X 3D **4MB** SGRAM Business Applications	XWAGP4	**$122**	**$128**
ATI XPERT@Work AGP 2X 3D **8MB** SGRAM Business Applications	XWAGP8	**$168**	**$176**
ATI XPERT@Play AGP 2X 3D **4MB** SGRAM Gaming Applications	XPAGP4	**$147**	**$153**
ATI XPERT@Play AGP 2X 3D **8MB** SGRAM Gaming Applications	XPAGP8	**$191**	**$200**
ATI All-in-Wonder Pro AGP **4MB**, ATI 3D RAGE PRO Video & Graphics accelerator	WPAGP4	**$220**	**$230**
ATI All-in-Wonder Pro AGP **8MB**, ATI 3D RAGE PRO Video & Graphics accelerator	WPAGP8	**$267**	**$279**



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Enlight Mid-Tower Enlight Case 250 watt PS, 1/3.5" & 4/5.25" ext & 4/3.5"int bays	EN6680	**$69**
Enlight Mini-Tower Case 200 watt PS, 3/3.5" & 2/5.25" bays	EN6552	**$49**
ATX Case Enlight ATX Case 4/5.25", 2/3.5" & 2/3.5 Int. Bays, 300 watt PS	EN7230	**$79**
Desktop Baby AT Case 250 watt PS, 1/3.5", 3/5.25" ext. & 1/3.5" int. bay, LCD	MBAT	**$35**
Mid-Tower Case 250 watt PS, 2/3.5" & 3/5.25" ext & 1/3.5"int bay	MIDTOWER	**$35**
SuperMicro Full-Tower Case 300 watt AT 1/3.5" & 6/5.25" ext & 2/3.5"int bay	SC750-S	**$189**
SuperMicro Full-Tower Case 300 watt ATX 1/3.5" & 6/5.25" ext & 2/3.5"int bay	SC750-A	**$189**
SuperMicro SC801-A Full ATX size dual Pentium Pro-based server 300 watt	SC801A	**$679**
SuperMicro SC801-S Full AT size dual Pentium Pro-based server 300 watt	SC801S	**$579**
Enlight EN-7200 ATX Case 5 1/4"x3, 3.5"x2 & 3.5"x2, 230 watt PS/2, ATXSPS	EN7200	**$65**
Procase CS768T ATX Big Tower Case, 3/3.5" & 6/5.25" ext & 1/3.5"int bays, 300 watt PS	CS768T	**$139**

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Focus 8200-126 Key Programmable Keyboard with Calculator	FK8200	**$39**
Focus 6200PS2 Keyboard 104 Key (PS2)	FK6200PS2	**$19**
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Microsoft PS/2 Mouse with PS/2 Connector	MSPS2MOUSE	**$29**
Microsoft Intellimouse V3.0 PS/2 Style for Windows 95	INMOUSE	**$59**
Logitech Mouseman 4 Button PS/2 mouse with Serial Adapter	MM4BUTTON	**$49**
Genius Mouse Three buttons, windows compatible	MOUSE	**$9**
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3Com Etherlink III, 16-bit ISA 10 Combo	3C509COMBO	**$125**
3Com Fast Etherlink, 10/100 PCI	3C905TX	**$99**
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3Com Etherlink XL PCI 10Base-T	3C900TPO	**$109**
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Trendware PCI Combo for **Workstation**	TE-PCI/W	**$25**
Trendware ProXpress 10/100 PCI	TE100-PCI	**$49**
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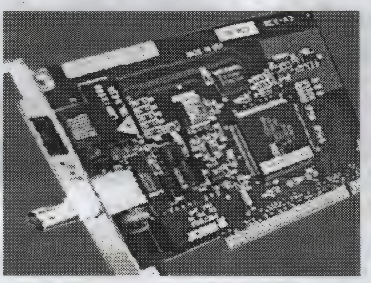

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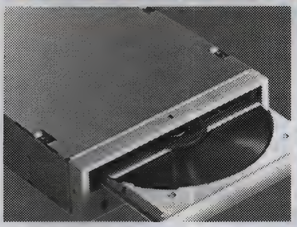
Multimedia

CD-ROM Drives



Plextor UltraPlex 32X max/14X min **SCSI** CAV CD-ROM Drive	PX32TSI	**$219**
BTC BCD 32X IDE 4.8MB transfer rate, 85ms access time, 256K Buffer	BCD32X	**$75**
Panasonic 32X IDE 4.8MB transfer rate, 85ms access time, 256K Buffer	586B	**$89**
Toshiba 32X IDE 4.8MB transfer rate, 85ms access time, 256K Buffer	XM6202B	**$85**
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TEAC 32X IDE 4.8MB transfer rate, 85ms access time, 256K Buffer	CD532E	**$85**
Acer 32X IDE -MTRP Speed-4800KB/sec. data transfer rate	CD932E	**$99**
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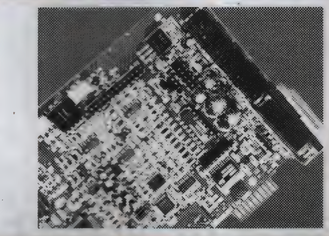
NEW MITSUMI CR-2801 TE 8X Read & 2X Write, IDE interface, 200ms access, 512KB Buffer	CR2801TE	**$275**

Sound Cards



Creative Labs AWE64 Value-64 Voice, 512K RAM, CD Bundle	AWE64VALUE	**$75**
Creative Labs AWE64 Gold Gold contacts make recording clearer	AWE64GOLD	**$175**
Creative Labs Sound Blaster 16 Plug & Play	SB16PNP	**$39**
DCS 717 Rockwell Sound Card w/MMX features, 16-bit stereo, Plug & Play	DCS717	**$29**
Diamond Monster 3D Direct PCI Sound w/24 voices, Win 95	MONSND	**$115**
Ensoniq PCI Sound Card 128 MIDI Wavetable Instr. 32 voices, Win 95	ENS5016	**$39**

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JUSTER SP-988 30 watt RMS total, volume, bass, treble controls	SP988	**$35**
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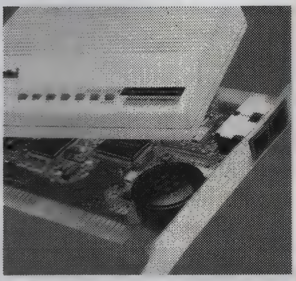
JUSTER AC-691 9 watt stereo, on/off switch, vol. controls & AC adapter	AC691N	**$12**
Altec Lansing ACS43 PowerCube 2 Piece Speaker System	ACS43	**$39**
Altec Lansing ACS45 6 watt speakers w/ 20 watt Subwoofer, PowerCube	ACS45	**$79**
Altec Lansing ACS48 20 watt speakers w/ 40 watt Subwoofer, PowerCube+	ACS48	**$129**
Altec Lansing ACS55 5-channel sound with 40 watt Subwoofer	ACS55	**$155**
Altec Lansing ACS500 with Dolby Surround Sound	ACS500	**$239**

Modems/Video Kits



USR Sportster 33,600 Internal V.34 Modem with Fax	SPT288IFAX	**$85**
USR Sportster 33,600 External V.34 Modem with Fax	SPT288EFAX	**$99**
USR Sportster 33,600 Internal with Fax & Voice	S288VFAXI	**$109**
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USR Winmodem 33,600 Internal with Fax	1125	**$59**
U.S. Robotics 56K Voice Faxmodem Pro External Model 5605 3Com v.90 technology	5605	**$229**
U.S. Robotics 56K Voice Faxmodem Internal Model 5685 3Com v.90 technology	5685	**$165**
U.S. Robotics 56K Winmodem Internal Model 5683 3Com v.90 technology	5683	**$95**
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USR 1622 Big Picture Video Kit 56K voice/video faxmodem	1622	**$285**
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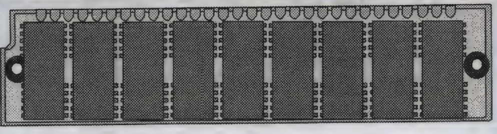
Memory Modules



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2X32-60	8MB	**$18**
4X32-60	16MB	**$29**
8X32-60	32MB	**$55**
16X32-60	64MB	**$195**

EDO Memory

1X32 EDO	4MB	**$11**
2X32 EDO	8MB	**$18**
4X32 EDO	16MB	**$29**
8X32 EDO	32MB	**$55**
16X32-60	64MB	**$195**

Parity Memory

1X36-60	4MB	**$17**
2X36-60	8MB	**$29**
4X36-60	16MB	**$41**
8X36-60	32MB	**$77**
16X36-60	64MB	**$209**

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2X64	16MB	**$36**
4X64	32MB	**$65**
8X64	64MB	**$169**
16X64	128MB	**$325**

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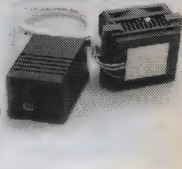

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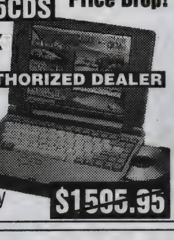

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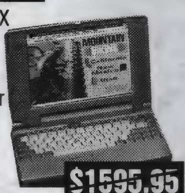

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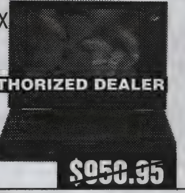

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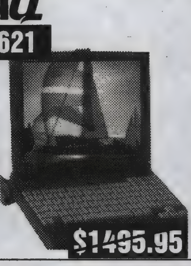

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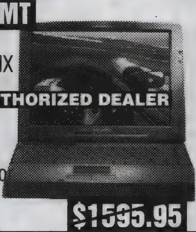

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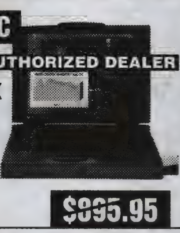

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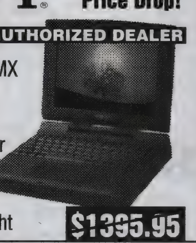

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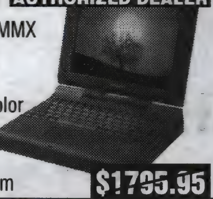
- 56k Fax Modem



$1795.95

PCM Series

PCM 200 200MMX, 32/3.2G, 13.3" TFT	Call

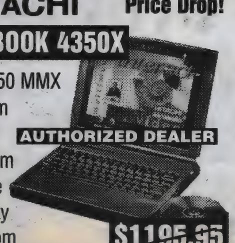
PC-9000 Series

PC9320T P150MMX 32/1.6 11.3 TFT	1395.95
PC9330T P150MMX 32/1.6 12.1 TFT 20x	1695.95
PC9340T P166MMX 32/2.1 12.1 TFT 20x	Call
PC9800T P166MMX 32/2.1 12.1 TFT 10x	1795.95
PC9820T P233MMX 32/3 13.3 TFT 14x	2195.95
NEW! WIDE NOTE P133 16/1.1 28.8 Modem TFT	Call

HITACHI

VISION BOOK 4350X **Price Drop!**

- Pentium 150 MMX
- 16 MB Ram
- 2.1Gig HD
- 33.6 Modem
- 12.1 Active Color Display
- 10X CD Rom



AUTHORIZED DEALER

$1195.95

VISION BOOK +

4140X MMX133 16/1.4 G 12.1 TFT 10x 33.6	895
Traveler MMX 133 24/1G 2.7 lbs.	Call
4360X MMX166 16/2.1G 12.1 TFT 10x 33.6	1495

VISION BOOK PRO

7360166 MMX 16/2.1G 12.1 TFT 10x 56K	1695
7560 166 MMX16/3G 13.3 TFT 10x 56K	Call
7370 200mmx 32.3.2 12.1TFT 20X	Call
7580 233 MMX 32/4G 13.3 TFT 20X	Call
7590 266MMX 48/4 13.3TFT 20x	Call

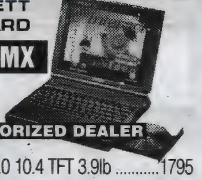
VISION 5000

5260 MMX166 16/2.1 12.1HPA 20x	1395
5280 MMX233 32/3 12.1HPA 20x	1795

HEWLETT PACKARD

PENTIUM MMX

OMNI BOOK



AUTHORIZED DEALER

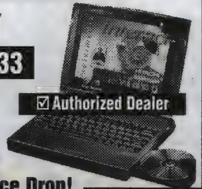
800 166MMX 16/2.0 10.4 TFT 3.9lb	1795
2000 150MMX 16/2.0 12.1 TFT	1395
3000 233MMX 32/4.0 13.3 TFT 20x CD	2395
5700 166MMX 16/2.0 12.1 TFT 10x CD	1495

MITSUBISHI

AMITY

PENTIUM 133

- Pentium 133
- 16 MB Ram
- 1.2 Gig HD
- 7.5" Color
- 2.4 lbs.



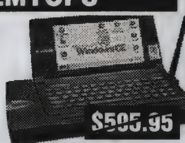
☑ Authorized Dealer

Price Drop! **$1395.95**

PALMTOPS

CASIO
CASIOPIA

- 8 Mb Ram
- Windows CE 2.0
- Internet Access



$595.95

NEC
Moble Pro 700

- 1.5 lb.
- Windows CE 2.0
- Built-in 28.8kbs

$595.95

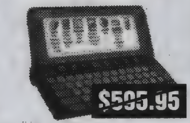
PHILIPS
VELO 500

- 16 Mb Ram
- Windows CE 2.0
- Lotus CC Mail

$545.95

HP
360LX

- 8 Mb Ram
- Windows CE 2.0
- Super Wide Screen



$595.95

PSION
SERIES 5

- 8 Mb Ram
- Business Software
- EPOC 32 OS

$545.95

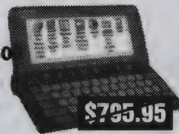
3 COM
PALMPILOT PRO

- 1 Mb Ram
- Back Light
- E-Mail

$245.99

SHARP
MOBILIA HC 450

- 8 Mb Ram
- Windows CE 2.0
- Optional Camera



$795.95

DIGITAL CAMERAS

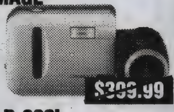
Konica Q-MINI

- Progressive Scan CCD 640x480
- Built-in 1.8" Color Viewfinder
- Removable Compact Flash
- A/C Adapter included

$345.95

MINOLTA D-IMAGE

- 640x480 Resolution
- Detachable Camera Zoom Lens

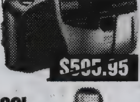


$399.99

OLYMPUS D-320L

- 1024x768 Pixel Resolution
- Removable Smart Media
- 1.6" LCD Display

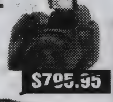
New D-220L......449.99



$595.95

OLYMPUS D-500L

- 1024x768 Pixel Resolution
- 3X Zoom Lens
- TTL Camera

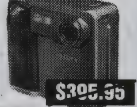


$795.95

SONY
MAVICA MVC-FD5

- 640x480 Resolution
- Uses 3.5 Floppy Disk
- 2.5" Display

New Mavica MVC-FD7......Call



$395.95

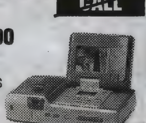
Kodak DC-210

- 2X Digital Camera
- 1152x864 Resolution
- 4Mb Ram
- Optional Flash Cards

CALL

RICOH RDC-300

- 640x480 Resolution
- Stores up to 100 Pictures
- Built-in Monitor
- Built-in Flash



$295.95

RETURN OR EXCHANGES MAY BE MADE WITHIN 7 DAYS OF RECEIPT AFTER PRIOR AUTHORIZATION GIVEN BY CUSTOMER SERVICE. ALL RETURNED MERCHANDISE MUST BE IN ORIGINAL NEW CONDITION AND INCLUDE BLANK WARRANTY CARDS. RETURNS ARE SUBJECT TO A MINIMUM OF A 10% RE-STOCKING FEE NO EXCEPTIONS. SHIPPING AND HANDLING ARE NON-REFUNDABLE. NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. COUPONS CANNOT BE COMBINED. ALL PRODUCTS COME WITH USA MFG WARRANTY. THIS AD IS VALID ONLY FOR THE CORRESPONDING DATED ISSUE CA# 0930229.

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SHOPPER'S GUIDE
Digital Cameras

CONSUMER DIGITAL CAMERAS

Company	Product	List Price	Resolutions (Pixels)	CCD or CMOS	Viewing Mechanism(s)	LCD Power Management	Built-In Flash	Transfer Technology	Battery Features/ Technology	AC Adapter Included	Built-In Memory	Removable Memory	Software Types	Additional Features	Warranty/Tech Support	COMPUTER SHOPPER
Agfa	ePhoto 307	$349	640x480, 320x240	CCD	OV	None	Y	S (CI)	4 AA DI	O	2MB (36-72)	None	IE, IO, PH, TW	None	1/TF	✓
Agfa	ePhoto 1280	$899	1,280x960, 1,024x768, 640x480	CCD	LCD (2 in.), 3x MT	BC, MS, PD	Y	S (CI)	4 AA NH	O	None	SM (one 4MB)	IE, IO, PH, TW	NV	1/TF	✓
Apple Computer	QuickTake 200	$249	640x480	CCD	LCD (1.8 in.), OV	PD	N	S (CI)	4 AA DI	O	None	PF (one 2MB)	IE, PH	None	1/TF	
Canon Computer Systems	PowerShot 350	$499	640x480	CCD	LCD (1.8 in.)	BC, MS, PD	Y	S (CI)	3 AA NC	O	None	CF (one 4MB)	IE, IO, PH, TW	NV	1/TF	✓
Canon Computer Systems	PowerShot A5	$699	1,024x768, 512x384	CCD	LCD (2 in.), OV	*	Y	S (CI)	1 PB NH	*	None	CF (one 8MB)	IE, PH, TW	NV	1/TF	✓
Canon Computer Systems	PowerShot Pro 70	*	1,536x1,024, 768x512	CCD	LCD (2 in.), OV	*	Y	S (CI)	1 PB NH	*	None	CF	IE, PH, TW	NV, SR	1/TF	✓
Casio	QV-700	$699	640x480	CCD	LCD (2.5 in.)	BC, MS, PD	Y	S (CI)	4 AA DI	O	None	CF (one 2MB)	IE, IO, TW	DP, NV	1/TF	✓
Eastman Kodak	DC200	$599	1,152x864	CCD	LCD (1.8 in.), OV	BC, MS, PD	Y	S (CI)	4 AA DI	O	None	CF (one 4MB)	IE, TW	NV, SV	1/TF	✓
Eastman Kodak	DC120	$799	1,280x960	CCD	LCD (1.6 in.), OV, 3x MT	BC, MS, PD	Y	S (CI)	4 AA DI	O	2MB (2-20)	CF	IE, IO, PH, TW	None	1/TF	✓
Eastman Kodak	DC210	$899	1,154x864, 640x480	CCD	LCD (1.8 in.), OV, 2x MT	BC, MS, PD	Y	S (CI), IR	4 AA DI	O	None	CF (one 4MB)	IE, TW	NV	1/TF	✓
Epson America	PhotoPC 550	$299	640x480, 320x240	CCD	OV	None	N	S (CI)	3 AA DI	O	1MB (6-24)	SM (two 8MB)	IO, TW	SR	1/TF	✓
Epson America	PhotoPC 600	$699	1,024x768, 640x480	CCD	LCD (2 in.), OV	MS	Y	S (CI)	4 AA NH	O	4MB (7-50)	CF	IO, TW	DP, NV	1/TF	✓
Fuji Film	DX-5	$299	640x480	CCD	OV	None	Y	S (CI)	2 AA DI	Y	None	SM (one 2MB)	PH	DP, SR	1/TF	✓
Fuji Film	DX-7	$499	640x480	CCD	LCD (1.8 in.), OV	BC, MS, PD	Y	S (CI)	4 AA DI	Y	None	SM (one 2MB)	PH	DP, NV, SR	1/TF	✓
Fuji Film	DX-9	$599	640x480	CCD	LCD (2 in.), OV, 3x MT	BC, MS, PD	Y	S (CI)	1 OS LI	N	None	SM (one 2MB)	PH	DP, NV, SR	1/TF	✓
Fuji Film	MX-700	$799	1,280x1,024, 640x480	CCD	LCD (2 in.), 2x MT	BC, MS, PD	Y	S (CI)	1 OS LI	N	None	SM (one 2MB)	PH	DP, NV, SR	1/TF	✓
Hewlett-Packard	PhotoSmart 620	$699	1,152x872	CCD	LCD (1.8 in.), OV	BC, MS, PD	Y	S (CI)	4 AA DI	Y	None	CF (one 4MB)	IE, IO, TW	NV	1/T	✓
Hitachi Home Electronics	MP-EGIA	$2,400	704x480, 352x240	CCD	LCD (1.8 in.), 3x MT	BC, MS, PD	N	P, S, SC	1 LI PB	N	None	PCH (1 260MB)	IE, IO, PH	MPV, NV, SR	1/TF	
Konica	Q-MINI	$699	640x480	CCD	LCD (1.8 in.)	BC, PD	Y	S (CI)	3 AA NC	Y	None	CF (one 2MB)	IE, TW	NV	1/TF	✓
Konica	Q-M100	$799	1,152x872, 576x436	CCD	LCD (1.8 in.), OV, 2x MT	BC, MS, PD	Y	S (CI)	4 AA D	O	None	CF (one 4MB)	IE, IO, TW	NV	1/TF	✓
Minolta	Dimage V	$599	640x480	CCD	LCD (1.8 in.), 2.7x MN	BC	Y	S (CI)	4 AA DI	O	None	SM (one 2MB)	PH, TW	None	1/T	✓
Nikon USA	Coolpix 100	$299	512x480	CCD	OV	None	Y	PCC	4 AA DI	N	1MB (21-42)	None	IE	None	1/T	✓
Nikon USA	Coolpix 300	$699	640x480	CCD	LCD (2.5 in.), OV	MS	Y	S (CI), SC (O)	4 AA DI	O	4MB (66-134)	None	IE, PS	NV, PI, SR	1/T	✓
Olympus Image Systems	D-220L	$499	640x480, 320x240	CCD	LCD (2 in.), OV	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 2MB)	PH, TW	DP, NV	1/TF	✓
Olympus Image Systems	D-320L	$699	1,024x768, 640x480	CCD	LCD (2 in.), OV	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 2MB)	PH, TW	DP, NV	1/TF	✓
Olympus Image Systems	D-500L	$899	1,024x768, 640x480	CCD	LCD (2 in.), OV, 3x MT	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 2MB)	PH, TW	DP	1/TF	✓
Olympus Image Systems	D-600L	$1,299	1,280x1,024, 640x512	CCD	LCD (1.8 in.), OV, 3x MT	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 4MB)	PH, TW	DP	1/TF	✓
Panasonic	Cool Shot	$499	640x480, 320x240	CCD	LCD (O), OV	BC, MS, PD	Y	S (CI)	4 AA AD	N	None	PCC (one 4MB)	IE, IO	NV, SV	1/TF	✓
Polaroid	PDC-2000140	$1,699	1,600x1,200, 800x600	CCD	OV	None	Y	SC (CI)	4 AA NC	Y	4MB (1-40)	None	IE, PH, TW	None	1/TF	
Polaroid	PDC-3000	$2,495	1,600x1,200, 800x600	CCD	OV	None	Y	SC (CI)	4 AA NC	Y	None	CF (one 2MB)	IE, PH, TW	None	1/TF	
Ricoh	RDC-300	$499	640x480	CCD	LCD (1.8 in.)	BC, PD	Y	S (CI)	4 AA DI	O	4MB (24-100)	None	IE, IO, TW	DP, NV	1/T	✓
Ricoh	RDC-300Z	$599	640x480	CCD	LCD (1.8 in.), 3x MT	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 2MB)	IE, IO, TW	DP, NV	1/T	✓
Ricoh	RDC-4300	$999	1,280x960, 640x480	CCD	LCD (2 in.), 3x MT	BC, PD	Y	S (CI)	4 AA DI	O	None	SM (one 4MB)	IE, IO, TW	DP, NV, SR	1/T	✓
Sony Electronics	DSC-F1	$499	640x480	CCD	LCD (1.8 in.)	None	Y	S, IR	1 OS LI	Y	4MB	None	IE, TW	DP, NV	1/TF	✓
Sony Electronics	Mavica MVC-FD5	$599	640x480	CCD	LCD (2.5 in.)	BC	Y	FL	1 PB LI	N	None	FL	IE	None	1/TF	✓
Sony Electronics	Mavica MVC-FD7	$799	640x480	CCD	LCD (2.5 in.), 10x MT	BC	Y	FL	1 PB LI	N	None	FL	IE	None	1/TF	✓
StarDot Technologies	Sienna	$199	512x384, 320x240	CCD	OV	None	Y	S (CI)	1 OS DI	O	None	SF	IE, IO, TW	None	1/T	
Toshiba America	PDR-2	*	640x480	CMOS	OV	*	N	PCC	1 LI PB	N	None	SM (two 2MB)	IE	None	*/TF	✓
Umax Technologies	MDX-8000	$399	1,000x800, 500x400	CMOS	OV	None	Y	S (CI)	6 AA DI	N	5MB (6-22)	PCC (one 2MB)	IE	SR	1/TF	✓
Vivitar	ViviCam 3000	$600	1,000x800, 500x400	CMOS	OV	None	Y	S	6 AA DI	O	500K (12-24)	PCC (one 2MB, one 4MB)	IE, IO, TW	SR	1/T	
Yashica	KC 600	$499	640x480, 320x240	CCD	LCD (1.8 in.), OV	MS, PD	Y	S (CI)	4 AA DI	O	None	CF (one 2MB)	IE, PH, TW	NV	1/TF	

Notes: "Built-In Memory" indicates the amount of internal camera memory, followed in parentheses by the range of number of images the memory can store. **"Removable Memory"** indicates the type of removable memory the camera uses, followed in parentheses by the number and memory capacity of any included cards. **"Warranty/Tech Support"** indicates parts-and-labor warranty in years, followed by whether tech support is a toll or toll-free call. **BC** = LCD brightness control; **CF** = CompactFlash; **CI** = cable included; **D** = disposable batteries; **DI** = disposable batteries included; **DP** = proprietary direct-to-printer feature; **FL** = 3.5-inch floppy disk; **IE** = image-editing software; **IM** = range of number of images; **IO** = image-organizer software; **IR** = infrared adapter; **LCD (x in.)** = built-in LCD viewfinder (diagonal size in inches); **LI** = lithium-ion battery; **MC** = MiniatureCard; **MN** = manual zoom lens; **MPV** = MPEG-1 motion-video recording; **MS** = manual LCD on/off switch; **MT** = motorized zoom lens; **N** = no; **NA** = not applicable; **NC** = nickel-cadmium; **NH** = nickel-hydride; **NV** = NTSC video out port; **O** = optional; **OS** = other standard-format battery; **OV** = optical viewfinder; **P** = parallel interface; **PB** = proprietary battery; **PCC** = PC Card flash memory; **PCH** = PC Card hard drive; **PD** = automatic LCD power-down feature; **PF** = proprietary flash memory card; **PH** = Photoshop plug-in; **PI** = pen input; **PS** = presentation software; **SF** = proprietary serial flash module; **SM** = SmartMedia; **SR** = sound-recording feature; **SV** = S-Video out port; **T** = toll-call tech support; **TF** = toll-free tech support; **TW** = TWAIN driver; **Y** = yes; ***** = information not provided

For company phone numbers, see p. 336

✓ **Checked manufacturers are listed in the *Computer Shopper* Product Index.**

SHOPPER'S GUIDE

Digital Cameras

PROFESSIONAL DIGITAL CAMERAS

Company	Product	List Price	Equipment Type	CCD Size (Pixels)	Max. Color Bit Depth	Viewing Mechanism(s)	Transfer Technology	Battery Features/ Technology	Power Adapter	Built-In Memory	Removable Memory	Software Types	Additional Features	Warranty/Tech Support	COMPUTER SHOPPER
Canon USA	EOS-DCS3	$16,000	PDC	1,012x1,268	36-bit	SLR	SC (CI)	1 PB (NH)	Y	16MB BF (1-12); HCD	PCC	PH, TW	SR, EFL	0.5/TF	
Canon USA	EOS-DCS1	$27,995	PDC	3,060x2,036	36-bit	SLR	SC (CI)	1 PB (NH)	Y	16MB BF (1-2); HCD	PCC	PH, TW	SR, EFL	0.5/TF	
Canon USA	EOS-D2000	*	PDC	1,152x1,728	36-bit	LCD (1.8 in.), SLR	IEEE-1394 (CI)	1 PB (NC)	Y	32MB BF (1-12); HCD	PCC	PH, TW	SR, EFL	0.5/TF	
Dicomed	StudioPro	$9,950	DCB	3,000x3,760	36-bit	CAM	SC (CI)	NA	N	HCD	None	IO, PH	None	1/TF	
Dicomed	StudioPro XL	$16,995	DCB	6,000x7,520	36-bit	CAM	SC (CI)	NA	N	HCD	None	IO, PH	None	1/TF	
Dicomed	FieldPro	$19,995	DCB	6,000x7,520	36-bit	CAM	SC (CI)	1 PB	N	None	HDD (one 1GB)	IO, PH	None	1/TF	
Dicomed	BigShot 1000	$35,000	DCB	4,096x4,096	36-bit	CAM	SC (CI)	NA	N	HCD	None	IO, PH	MFC	1/TF	
Dicomed	BigShot 3000	$39,900	DCB	4,096x4,096	36-bit	CAM	SC (CI)	NA	N	HCD	None	IO, PH	MFC	1/TF	
Dicomed	BigShot 4000	$54,900	DCB	4,096x4,096	36-bit	CAM	SC (CI)	NA	N	HCD	None	IO, PH	MFC	1/TF	
Eastman Kodak	DCS-410	*	PDC	1,012x1,524	36-bit	SLR	SC	1 PB	Y	None	PCC	PH	SR, FML	*/TF	✔
ElectroImage	MicroLumina	$6,995	PDC	2,700x3,800	36-bit	*	SC (CI)	NA	Y	HCD	None	PH, TW	FML	2/TF	
MegaVision	S2	$18,995	DCB	2,048x2,048	36-bit	CAM	PPCI	1 PB (NH)	Y	64MB BF (8)	PCH (one 520MB)	IE	MFC	1/TF	
MegaVision	T2	$26,900	DCB	2,048x2,048	36-bit	CAM	PPCI	NA	N	HCD	None	TU	LFC	1/TF	
Nikon USA	E2N	$9,995	PDC	1,280x1,000	*	SLR, OV	S	1 PB (NC)	O	None	PCC	IO	NV, PAL, FML	1/T	✔
Nikon USA	E2Ns	$14,880	PDC	1,280x1,000	*	SLR, OV	S	1 PB (NC)	O	None	PCC	IO	NV, PAL, FML	1/T	✔
Phase One	StudioKit	$12,990	DCB	2,500x3,600	48-bit	CAM	SC (CI)	NA	Y	HCD	None	CC, TU	LFC	1/TF	
Phase One	StudioKit	$12,990	DCB	3,500x3,500	48-bit	CAM	SC (CI)	NA	Y	HCD	None	CC, TU	MFC	1/TF	
Phase One	PowerPhase	$29,990	DCB	6,000x8,400	48-bit	CAM	SC (CI)	NA	Y	HCD	None	CC, TU	LFC	1/TF	
Phase One	PowerPhase	$29,990	DCB	7,000x7,000	48-bit	CAM	SC (CI)	NA	Y	HCD	None	CC, TU	MFC	1/TF	

Notes: "Built-In Memory" indicates the amount of internal camera memory, followed in parentheses by the number of images the memory can store. **"Removable Memory"** indicates the type of removable memory the camera uses, followed in parentheses by the number and memory capacity of any included cards. **"Warranty/Tech Support"** indicates parts-and-labor warranty in years, followed by whether tech support is a toll or toll-free call. Contact vendors for specifics on camera-back compatibility with specific camera models. **BF** = buffer; **CAM** = host-camera-dependent; **CC** = color-calibration software; **CI** = cable included; **DCB** = digital camera back; **EFL** = accepts EF lenses; **FML** = accepts F-mount lenses; **HCD** = dependent on host computer; **HDD** = hard drive; **IE** = image editor; **IO** = image organizer; **LCD (x in.)** = built-in LCD viewfinder (diagonal size in inches); **LFC** = compatible with large-format cameras; **MFC** = compatible with medium-format cameras; **N** = no; **NA** = not applicable; **NC** = nickel-cadmium; **NH** = nickel-hydride; **NV** = NTSC video-out; **O** = optional; **OV** = optical viewfinder; **PAL** = PAL video-out; **PB** = proprietary battery; **PCC** = PC Card flash memory; **PCH** = PC Card hard drive; **PDC** = professional digital camera; **PH** = Photoshop plug-in; **PPCI** = proprietary PCI card; **S** = serial interface; **SC** = SCSI interface; **SLR** = single-lens reflex; **SR** = sound-recording function; **T** = toll-call tech support; **TF** = toll-free tech support; **TU** = image-transfer utility; **TW** = TWAIN driver; **Y** = yes; **.*** = information not provided

COMPANY LIST

Agfa	888-281-2302
Apple Computer	408-996-1010
Canon Computer Systems	800-848-4123
Canon USA	800-828-4040
Casio	800-962-2746
Dicomed	800-888-7979
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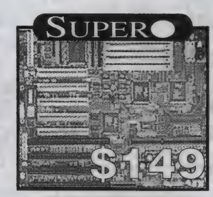

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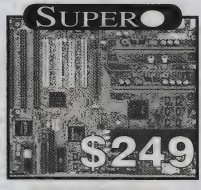

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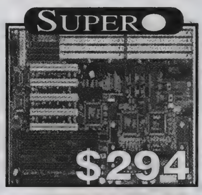

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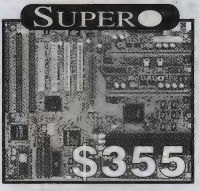

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- AMI Bios
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- 4 PCI/ 3 ISA
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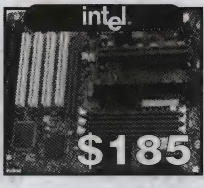

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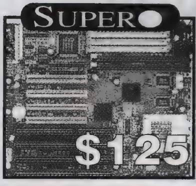

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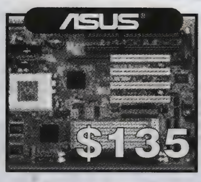

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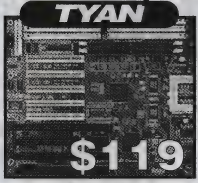

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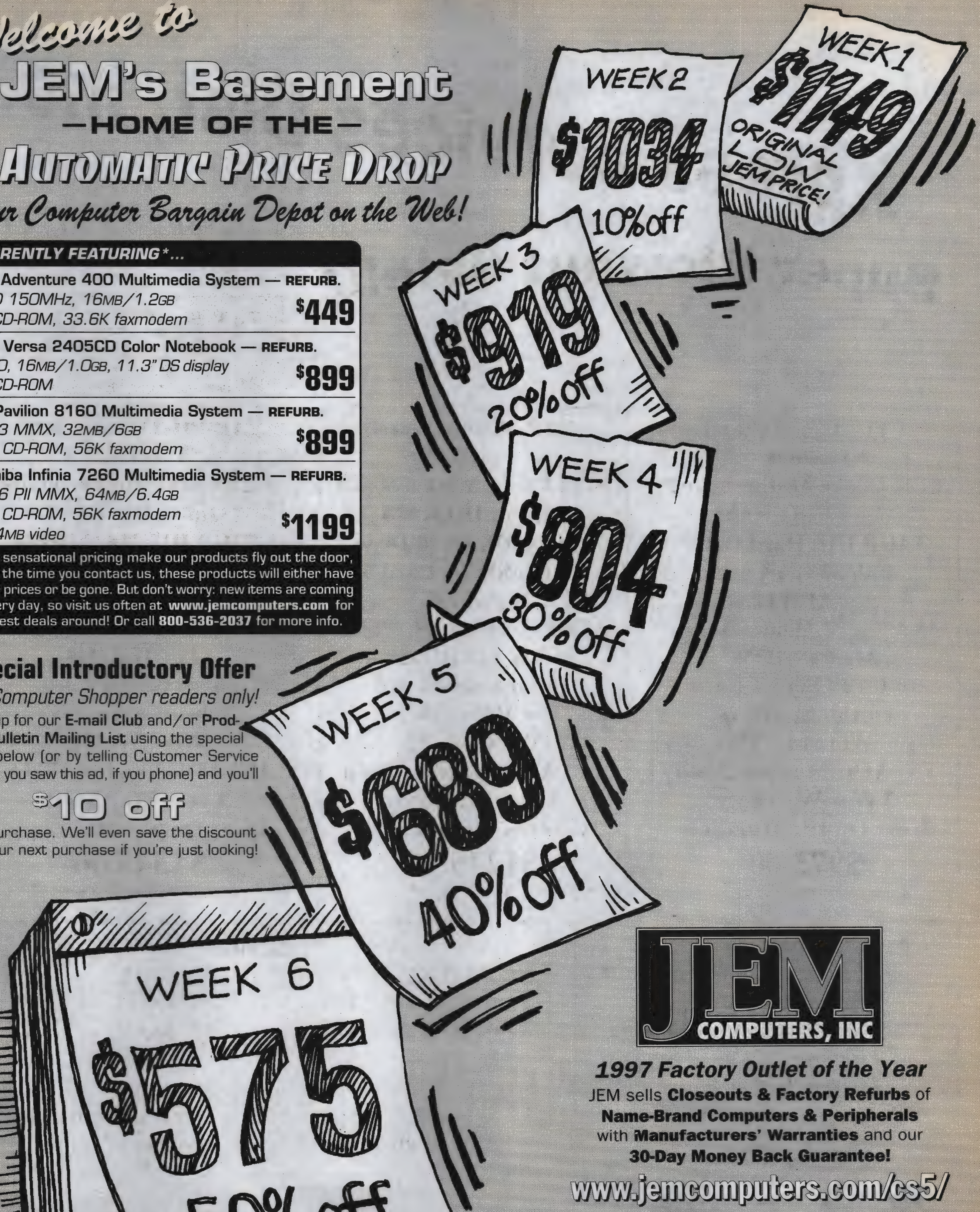

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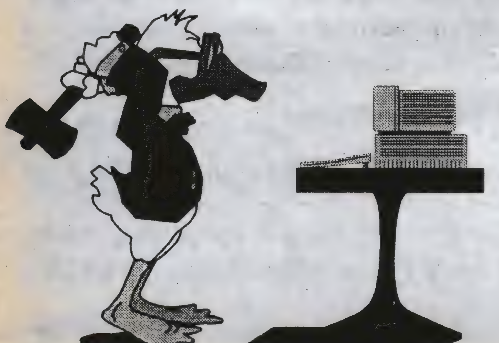

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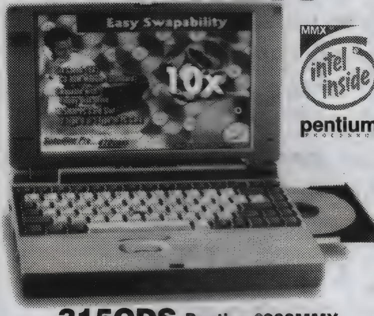

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•32MB RAM •3.8 GB•Sound •12.1"TFT Display
•16 Bit Sound •20x CD-ROM •56K Fax Modem

$2988

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730XCDT P150MMX16MB,2.02GB,12.1"Act,10XCD,28.8FM	$1799
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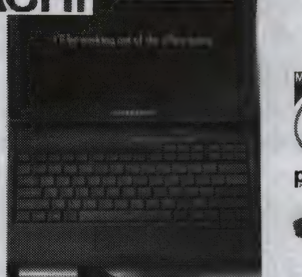

VISIONBOOK 5260
Pentium®166MMX
•16 MB RAM •2.1 GB HD •20X CD ROM
•12.1" HPA •56K MODEM

$1249

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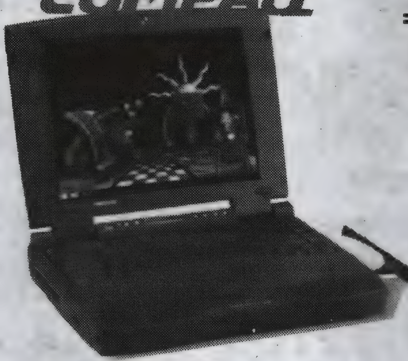

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•56K Fax Modem •12.1" HPA Color

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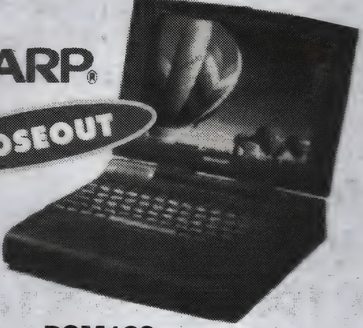
SHARP



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•20X CD-ROM

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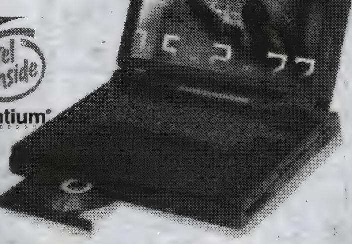

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•16 MB RAM •2.0 GB HD •20X CD-ROM
•12.1 HPA •56K Modem

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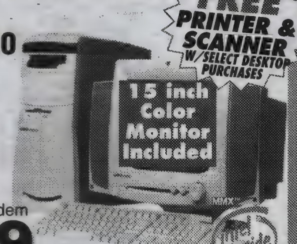

PRESARIO 4528
PENTIUM®
233MMX
•32MB RAM
•3.2 GB HD
•15" Color Monitor
•20X CD
•56K Fax Modem

$849

PRESARIO SERIES

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PENTIUM®
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•32MB RAM
•6.0 GB HD
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•56K Fax Modem
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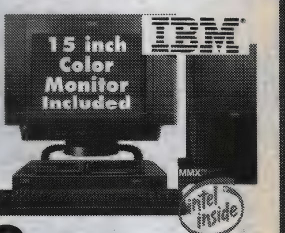
8260 Pentium® II 266MMX 32MB RAM,4 GB, 24X CD, 56K Fax Modem, 15" Monitor	$1699
8270 Pentium® II 300MMX 32MB RAM,6.0 GB, 24X CD, 56K Fax Modem, 15" Monitor	CALL
3100 Pentium® II 166MMX 16MB RAM,1.6 GB, 16X CD, 33.6 Fax Modem, 15" Monitor	$599
3260 Pentium® II 200MMX 32MB RAM,2.1 GB, 16X CD, 56K Fax Modem, 15" Monitor	$699
8240 Pentium® II 233MMX 32MB RAM,4 GB, 24X CD, 56K Fax Modem, 15" Monitor	$999
8190 Pentium® II 300MMX 32MB RAM,4.7 GB, DVD CD, 56K Fax Modem, 15" Monitor	$1699
8280 Pentium® II 333MMX 64MB RAM,4.7 GB, DVD CD, 56K Fax Modem, 15" Monitor	$1799

IBM



APTIVA S3C
PENTIUM®
233MMX
•32MB RAM
•4.2 GB HD
•16X CD
•33.6 Fax Modem
•15" Color Monitor

$849

APTIVA SERIES

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L51 Pentium® II 233MMX 32MB RAM, 6.0 GB, DVD CD, 56K Fax Modem, BOSE SPEAKERS	$1899
E26 233MMX 32MB RAM, 3.2 GB, 24X CD, 56K Fax Modem, 15" Monitor	$899
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  During our more than ten years in business, we have seen many competitors come and go. MegaHaus is a secure and honest company that will be here to serve you for many years to come.
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  In today's market we know that customer satisfaction is a priority. We strive for excellence in satisfying our customers from beginning to end. Thanks to this philosophy, our percentage of business from referrals is very high. We appreciate your business! If for some reason you are unsatisfied, we offer a 30 day return policy on all products listed in our ad.
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  Check out our website at www.megahaus.com. And be sure to bookmark this site, we are very busy at developing our technical information section. We are putting together perhaps the most vast collection of data available on computer storage products on the web - just one more reason why we are *The Drive Authority.*
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  Our factory trained technicians will support our products forever. Whether you buy a small drive bracket or a massive multidrive RAID system, call us with your questions. We'll be glad to help.

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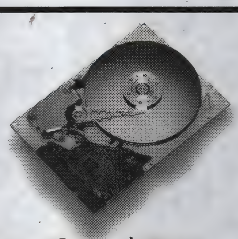
Quantum Fireball drives are our best sellers. They offer unmatched performance at an incredibly low price. Quantum is the pioneer of the Ultra ATA interface and their data transfer rates are the highest in the industry.

- **5400rpm spindle**
- **MegaHaus recommended**
- **3 year warranty**

		Ultra ATA	*Ultra SCSI*
2.1GB	**FB32100**	**$145**	**$209**
3.2GB	**FB33200**	**$179**	**$240**
4.3GB	**FB34300**	**$199**	**$275**
6.4GB	**FB36400**	**$258**	**$355**
8.4GB	**FB38400**	**$339**	**$455**

Quantum® BIGFOOT™

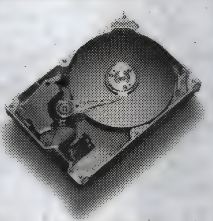


Quantum Bigfoot drives are simply the best priced drives in the industry. Their unique 5 1/4" form factor allows greater capacity at a lower cost. These drives are perfect for demanding desktop users.

- **Industry leading $/MB**
- **5 1/4" form factor**
- **3 year warranty**

		Ultra ATA	*¢/MB*
4GB	**BF4000A**	**$189**	**4.7¢**
6GB	**BF6000A**	**$239**	**3.9¢**
8GB	**BF8000A**	**$259**	**3.2¢**
12GB	**BF12000A**	**$359**	**2.9¢**

Quantum® VIKING™



Quantum, the leader in hard drive technology, is first to market with the technology you want. Viking II drives are the first drives on the market with the new Ultra-2 interface. Ultra-2 drives are capable of data transfers up to 80MB/sec!

- **7,200rpm spindle**
- **7.5ms average seek**
- **5 year warranty**

		Ultra-2	*Ultra Wide*
4.5GB	**VK304550**	**$439**	**$439**
9.1GB	**VK309100**	**$679**	**$679**

Special Promotion - The first 100 customers to purchase any Quantum Ultra-2 hard drive can get an Ultra-2 PCI controller for only $379 [ULTRAPROMO]

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ULTRA ATA HARD DRIVES

Ultra ATA hard drives are capable of data transfer up to 33Mbytes/sec. They have a 40 pin data connector. They will work on IDE, E-IDE, or Ultra ATA controllers at the controllers maximum speed. Kit includes an PCI Ultra-ATA controller, and data cable.

Quantum™

					Drive	Kit
2111MB	5400rpm	128K	FB32100A	3yr	$145	$200
3228MB	5400rpm	128K	FB33200A	3yr	$179	$234
4018MB	4000rpm	128K	BF4000A	3yr	$189	$244
4310MB	5400rpm	128K	FB34300A	3yr	$199	$254
6028MB	4000rpm	128K	BF6000A	3yr	$239	$294
6448MB	5400rpm	128K	FB36400A	3yr	$258	$313
8037MB	4000rpm	128K	BF8000A	3yr	$259	$314
8455MB	5400rpm	128K	FB38400A	3yr	$339	$394
12056MB	4000rpm	128K	BF12000A	3yr	$359	$414

WESTERN DIGITAL

2111MB	5400rpm	256K	WDAC12100	3yr	$148	$203
3249MB	5400rpm	256K	WDAC23200	3yr	$159	$214
4304MB	5400rpm	256K	WDAC34300	3yr	$187	$242
5163MB	5400rpm	256K	WDAC35100	3yr	$206	$261
6448MB	5400rpm	256K	WDAC36400	3yr	$259	$314

Seagate

2110MB	5400rpm	128K	ST32110A	3yr	$145	$200
2111MB	4500rpm	128K	ST32122A	3yr	$135	$190
2520MB	5400rpm	128K	ST32520A	3yr	$154	$209
3221MB	5400rpm	128K	ST33221A	3yr	$179	$234
3227MB	4500rpm	128K	ST33232A	3yr	$168	$223
4303MB	4500rpm	128K	ST34342A	3yr	$186	$241
4321MB	5400rpm	128K	ST34321A	3yr	$199	$254
4520MB	7200rpm	512K	ST34520A	3yr	new	call
6450MB	5400rpm	512K	ST36451A	3yr	$245	$300
6530MB	7200rpm	512K	ST36530A	3yr	new	call
6531MB	5400rpm	128K	ST36531A	3yr	$259	$314
8641MB	5400rpm	128K	ST38641A	3yr	$350	$405
9140MB	7200rpm	512K	ST39140A	3yr	new	call

FUJITSU

2100MB	5400rpm	128K	MP3021U	3yr	$139	$194
3200MB	5400rpm	128K	MP3032U	3yr	$163	$218
4370MB	5400rpm	128K	MP3043U	3yr	$187	$242
5250MB	5400rpm	128K	MP3052U	3yr	$213	$268
6480MB	5400rpm	256K	MP3064U	3yr	$246	$301

Maxtor

3240MB	5200rpm	256K	M83240D	3yr	$174	$229
4320MB	5200rpm	256K	M84320D	3yr	$188	$243
6480MB	5200rpm	256K	M86480D	3yr	$240	$295
8455MB	5200rpm	256K	M88400D	3yr	$319	$374

Ultra ATA Accesories

Cable Select Cable,No more changing Master/Slave switches [GSICSEL]	$12
Parallel Port External Case [PPCASEHD]	$89
GSI External Hot Port IDE case, true IDE transfer rates [HOTPORT]	$199
Removable drive bracket, quality construction[DP2200A]	$79
Promise IDE RAID controller [FASTTRAK]	$119

2.5" LAPTOP DRIVES

HITACHI

2100MB	4464rpm	12.7mm	EIDE	DK225A21	3yr	$185
3200MB	4000rpm	12.7mm	EIDE	DK226A32	3yr	$269
4000MB	4000rpm	19mm	Ultra ATA	DK227A41	3yr	$439
5000MB	4000rpm	19mm	Ultra ATA	DK228A50	3yr	$519

TOSHIBA

1400MB	4200rpm	12.7mm	EIDE	MK1401MAV	1yr	$185
2167MB	4200rpm	12.7mm	EIDE	MK2104MAV	1yr	$198
3250MB	4200rpm	12.7mm	Ultra ATA	MK3205MAV	1yr	$282
4000MB	4200rpm	12.7mm	Ultra ATA	MK4006MAV	1yr	$409

IBM

3240MB	4000rpm	12.5mm	Ultra ATA	DT23240	1yr	$399
4090MB	4200rpm	12.5mm	Ultra ATA	DT24090	1yr	$519
5120MB	4200rpm	17mm	Ultra ATA	DP25120	1yr	$639

2.5" Accesories

Diskmanager Software for larger drives on older systems [DISKMANAGER]	$15
Parallel case for 2.5" drives [PPCASE2.5]	$89
PCMCIA case for 2.5" drives [PCMCIACASE]	$169
2.5" to 3.5" adapter kit [IDEKIT-2.5]	$22

ULTRA/2 SCSI DRIVES

Ultra-2 hard drives are capable of data transfer up to 80Mbytes/sec. They have a 68 pin data connector. They will work on Wide, Ultra Wide or Ultra-2 controllers at the controllers maximum speed. External drives do not include terminator.

Quantum™

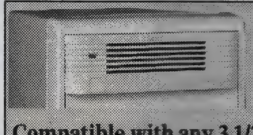
					Int	Ext
4550MB	7200rpm	512K	VK304550LW	5yr	$439	$589
9100MB	7200rpm	512K	VK309100LW	5yr	$679	$829
9100MB	7200rpm	1024K	XP309100LW	5yr	$799	$949
18200MB	7200rpm	1024K	XP318200LW	5yr	$1299	$1449

Seagate

4550MB	7200rpm	1024K	ST34573LW	5yr	$639	$789
4550MB	10,000rpm	1024K	ST34502LW	5yr	$779	$929
9100MB	10,000rpm	1024K	ST39102LW	5yr	$1095	$1245
9190MB	7200rpm	1024K	ST39173LW	5yr	$849	$999
18200MB	7200rpm	1024K	ST118273LW	5yr	$1599	$1749
18200MB	10,000rpm	1024K	ST118202LW	5yr	$1899	$2049

Ultra-2 Accesories

Adaptec PCI Ultra-2 controller [A2940U2WKIT]	$399
Atto PCI Ultra-2 controller for PC & Mac [ATTOPCIU2]	$699
Ext. terminator passive [ULTRA2TERM] $109 active[ULTA2TERMA]	$169
3' External Ultra-2 to Ultra-2 cable [U2TOU2-3]	$179
Removable drive bracket [DP2200UW]	$139



Prolong the life of your hard drive by keeping it cool!

Compatible with any 3 1/2" hard drive. Heat activated circuitry speeds up dual cooling fans as the drive gets warmer. Mounts in a 5 1/4" bay. A necessity for 7200rpm & 10,000rpm drives. [VHDFAN] $30

ULTRA WIDE SCSI DRIVES

Ultra Wide SCSI hard drives are capable of data transfer up to 40Mbytes/sec. They have a 68 pin data connector. They will work on Wide SCSI or Ultra Wide SCSI controllers at the controllers maximum speed. External Drives include terminator.

Quantum™

					Int	Ext
2275MB	7200rpm	512K	VK32275W	5yr	$239	$369
2275MB	7200rpm	512K	XP32275W	5yr	$199	$329
4550MB	7200rpm	512K	VK34550W	5yr	$339	$469
4550MB	7200rpm	512K	XP34550W	5yr	$469	$599
4550MB	7200rpm	512K	VK304550W	5yr	$439	$569
9100MB	7200rpm	512K	VK309100W	5yr	$679	$809
9100MB	7200rpm	512K	XP39100W	5yr	$729	$859

Seagate

2150MB	7200rpm	512K	ST32272W	5yr	$349	$479
4550MB	7200rpm	512K	ST34555W	3yr	$359	$489
4550MB	7200rpm	512K	ST34572W	5yr	$479	$609
4550MB	10,000rpm	512K	ST34501W	5yr	$599	$729
9100MB	7200rpm	512K	ST19171W	5yr	$769	$899
9100MB	10,000rpm	512K	ST19101W	5yr	$979	$1109
23200MB	5400rpm	1024K	ST423451W	5yr	$1689	$1839

FUJITSU

4550MB	7200rpm	512K	M3045W	5yr	$399	$529
9100MB	7200rpm	512K	M3091W	5yr	$679	$809
18200MB	7200rpm	512K	M3182W	5yr	$1389	$1519

WESTERN DIGITAL

2670MB	7200rpm	512K	WDE2170W	5yr	$329	$459
4360MB	7200rpm	512K	WDE4360W	5yr	$489	$619
9105MB	7200rpm	512K	WDE9100W	5yr	$735	$865

WIDE SCSI A/V

9105MB	7200rpm	1MB	WDE9100WAV	5yr	$799	$929

IBM

4330MB	5400rpm	512K	IBM34330W	5yr	$309	$439
9100MB	7200rpm	512K	IBM39130W	5yr	$689	$819
9100MB	7200rpm	1MB	IDGHS09U	5yr	$939	$1069
9100MB	10,020rpm	1MB	IDVGS9U	5yr	$1009	$1139
18000MB	7200rpm	1MB	IDGHS18U	5yr	$1739	$1869

Ultra Wide Accessories

Adaptec PCI Ultra Wide controller [A2940UW]	$209
Advansys PCI Ultra Wide controller [ABP940UW]	$152
3' External Ultra Wide to Ultra Wide cable [SC3TOSC3-3]	$59
Removable drive bracket [DP2200UW]	$139

ULTRA SCSI HARD DRIVES

Ultra SCSI hard drives are capable of data transfer up to 20Mbytes/sec. They have a 50 pin data connector. They will work on SCSI, SCSI-2 or Ultra SCSI controllers at the controllers maximum speed. External includes terminator.

Quantum™

					Int	Ext
2111MB	5400rpm	512K	FB32100S	3yr	$209	$269
2275MB	7200rpm	512K	VK32275S	5yr	$239	$299
3228MB	5400rpm	512K	FB33200S	3yr	$240	$300
4310MB	5400rpm	512K	FB34300S	3yr	$275	$335
4550MB	7200rpm	512K	VK34550S	5yr	$339	$399
4550MB	7200rpm	512K	XP34550S	5yr	$469	$529
6448MB	5400rpm	512K	FB36400S	3yr	$355	$415
8455MB	5400rpm	512K	FB38400S	3yr	$455	$515
9100MB	7200rpm	512K	XP39100S	5yr	$725	$785
9100MB	7200rpm	1024K	XP309100S	5yr	$799	$859
18200MB	7200rpm	1024K	XP318200S	5yr	$1299	$1359

Seagate

2160MB	7200rpm	512K	ST32272N	5yr	$329	$389
4550MB	7200rpm	512K	ST34555N	3yr	$309	$369
4550MB	7200rpm	512K	ST34572N	5yr	$479	$539
4550MB	10,000rpm	512K	ST34501N	5yr	$579	$639
4550MB	7200rpm	1024K	ST34573N	5yr	$609	$669
9100MB	7200rpm	512K	ST19171N	5yr	$739	$799
9100MB	10,000rpm	512K	ST19101N	5yr	$939	$999
9190MB	7200rpm	1024K	ST39173N	5yr	$829	$889
18200MB	7200rpm	1024K	ST118273N	5yr	$1569	$1629
23200MB	5400rpm	1024K	ST423451N	5yr	$1679	$1769

WESTERN DIGITAL

2670MB	7200rpm	512K	WDE2170N	5yr	$329	$389
4360MB	7200rpm	512K	WDE4360N	5yr	$489	$549
9105MB	7200rpm	512K	WDE9100N	5yr	$735	$795

IBM

4330MB	5400rpm	512K	IBM34330N	5yr	$299	$359
9100MB	7200rpm	512K	IBM39130N	5yr	$709	$769
18000MB	7200rpm	1MB	IDGHS18Z	5yr	$1729	$1789

Ultra SCSI Accesories

Adaptec PCI Ultra controller [A2940U]	$190
Advansys PCI Ultra controller[ABP940]	$110
Removable drive bracket [DP2200S]	$85

SCA HARD DRIVES

SCA hard drives are capable of data transfer up to 40Mbytes/sec (80Mbytes/sec for Ultra-2). They have a 80 pin connector that contains data signals and power.

Seagate

Ultra Wide SCA

2150MB	7200rpm	512K	ST32272WC	5yr	$379
4550MB	7200rpm	512K	ST34572WC	5yr	$549
4550MB	10,000rpm	512K	ST34501WC	5yr	$639
9100MB	7200rpm	512K	ST19171WC	5yr	$789
9100MB	10,000rpm	512K	ST19101WC	5yr	$1029

Ultra-2 SCA

4550MB	7200rpm	1024K	ST34573LC	5yr	$649
4550MB	10,000rpm	1024K	ST34502LC	5yr	$789
9100MB	10,000rpm	1024K	ST39102LC	5yr	$1119
9190MB	7200rpm	1024K	ST39173LC	5yr	$869
18200MB	7200rpm	1024K	ST118273LC	5yr	$1629
18200MB	10,000rpm	1024K	ST118202LC	5yr	$1939

FIBRE CHANNEL DRIVES

Seagate

Fibre Channel hard drives are capable of data transfer up to 200Mbytes/sec. They require special controllers and cables.

4550MB	10,00rpm	1024K	ST34501FC	5yr	$679
4550MB	7200rpm	1024K	ST34573FC	5yr	$649
4550MB	10,000rpm	1024K	ST34502FC	5yr	$789
9100MB	7200rpm	1024K	ST19171FC	5yr	$849
9100MB	10,000rpm	1024K	ST19101FC	5yr	$1059
9100MB	10,000rpm	1024K	ST39102FC	5yr	$1119
9190MB	7200rpm	1024K	ST39173FC	5yr	$869
18200MB	7200rpm	1024K	ST118273FC	5yr	$1629
18200MB	10,000rpm	1024K	ST118202FC	5yr	$1939

Fibre Channel Accessories

Adaptec PCI controller 32Bit [AF940] $789 64Bit [AF950]	$879
Atto PCI controller for PC and Mac [ATTOPCIFC]	$889
Fibre Channel Drive adapter [FCKIT]	$169

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www.megahaus.com

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DVD

Smart STORAGE SOLUTIONS

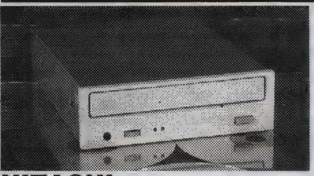
DVD-2 Kit From Smart Storage Solutions Gets Top Score!

Computer Shopper said, *"field leading speed ... The Smart Store DVD drive led the field with a CD-ROM WinMark 97 score of 987 .... the kit also delivered impressive DVD-Video playback quality ... the Smart Store DVD is a good deal.. deliver the goods in speed, video, performance, and flexibility." 12/97 Computer Shopper*

Includes:
Hitachi DVD-2 drive, 150ms, 20X CD Reader, 90ms, IDE interface. Reads all types of CD's including CDR & CDR-W, Mounts Horizontal or vertical. Quadrant International DVD / MPEG2 decoder with PCI interface. Plays broadcast quality video on your monitor.

Complete Kit [SSSDVD2KIT] **$269**

DVD DRIVES



MegaHaus is your DVD Headquarters

HITACHI
- DVD-2 Reader, 200ms •20X CD ROM, 90ms
- Reads CDR and CDR-W media

#GD-2000 $179
With MPEG-2 Card $269

TOSHIBA
- DVD-2 Reader, 160ms •24X CD ROM, 105ms
- Reads CDR and CDR-W media

#SDM1102 $195
With MPEG-2 Card $309

CREATIVE LABS
- DVD-2 Drive, 150ms •20X CD ROM, 90ms
- Reads CDR & CDRW media
- Three titles #CLDVDD2KIT $289

PIONEER DVD RECORDER
Complete kit #DVRS101 $16,899 media #DVDR $55

DVD Kit for Macintosh #DVDMAC $499

DVD ACCESSORIES

TRANSMITTER
WaveLink wire free remote PC to TV transmitter. View DVD movies and titles on a TV without the use of wires.
- 2.4GHz signal - penetrates walls, floors, & ceilings with ease.
- Sends and receives crisp color video and stereo audio.
- Also works with many other video/audio sources.
- Operates up to 300 feet away. #PCTOTV $169

MPEG-2 DECODER
Quadrant International MPEG-2 decoder plays broadcast quality video on your monitor.
- DVD/MPEG-2 decoder •PCI interface
- Output S-Video, composite video
- Output analog audio, coaxial digital audio

#CINEMASTER $139

CD DUPLICATORS

• HOEI DUPLICATORS •

Use as a stand alone or attach to PC for CD Mastering. These units can be daisy chained for expandability.

4 Drive unit, makes 4 copies at once #HOEISR4400	$4999

• COPYWRITER DUPLICATORS •

Attach to PC, compatible with Win 95 or NT. Once Master is created, simultaneous copies can be made from your hard drive or the built in CD Reader. Writers are 4X.

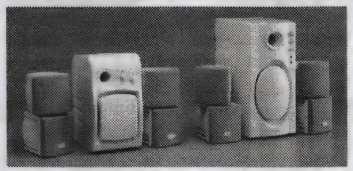
2 Drive unit, makes 2 copies at once #CPYWRITE241	$1999
4 Drive unit, makes 4 copies at once #CPYWRITE441	$3359
7 Drive unit, makes 7 copies at once #CPYWRITE741	$5399

• CEDAR DUPLICATORS •

- Attaches to your PC or Mac SCSI Port.
- 50 Disc auto loader, lets you load 50 discs and walk away.
- 4X CD record speed
- CDs are verified on separate 8X drive
- Compatible with most operating systems

1 CD-R drive	#CEDARDUP50	$5339
1 CD-R drive, and CD Printer	#CEDARDUP50P	$6549
2 CD-R drive	#CEDARDUP250	$5999
2 CD-R drive, and CD Printer	#CEDARDU250P	$7219

SPEAKERS



"The Sound Jr is an outstanding choice...Best all around sound." Computer Shopper (Sept '97issue)

Get fantastic sound quality for your computer from these high quality speakers. These component style speakers include separate sub-woofer and professional quality swivel satellite speakers, similar to high end home speakers.

Sound Image Jr 25 Watt	#SPEAKERJR	$99
Sound Image Pro 35 Watt	#SPEAKERPRO	$99

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CD ROM READERS

• SCSI DRIVES •

Brand	Model	Max Spin	Speed	Internal	External
Plextor	PX12TS(tray)	12X	105ms	$175	$259
Plextor	PX12CS(caddy)	12X	105ms	$209	$295
NEC	CDR1610	16X	100ms	$99	$189
Plextor	PX20TS	20X	95ms	$189	$275
NEC	CDR1810	24X	85ms	$109	$199
Teac	CD532S	32X	85ms	$119	$209
Toshiba	XM6201B	32X	85ms	$119	$209
NEC	CDR1910	32X	85ms	$119	$209
Pioneer	DRX32S	32X	70ms	$129	$219
Plextor	PX32TS(tray)	32X	85ms	$225	$315
Plextor	PX32CS(caddy)	32X	85ms	$259	$349

• ATAPI DRIVES (IDE) •

Brand	Model	Max Spin	Speed	Internal	Int Kit
Mitsumi	CRMCFX16X	16X	120ms	$75	$105
Pioneer	DRX24X	24X	90ms	$79	$109
Mitsumi	CRMCFX24X	24X	90ms	$79	$109
Teac	CD524E	24X	95ms	$79	$109
NEC	CDR1800	24X	95ms	$85	$115
Toshiba	XM6102B	24X	85ms	$85	$115
Teac	CD532E	32X	85ms	$89	$119
Toshiba	XM6202B	32X	80ms	$89	$119
Mitsumi	CRMCFX32X	32X	85ms	$90	$120
Pioneer	DRU504	32X	70ms	$95	$125
NEC	CDR1900	32X	80ms	$99	$129

Terratec 3D sound $45 Sound Blaster AWE64Pnp $100

• CD CHANGERS •

IDE	Model	Disks	Spin	Speed	Price
NEC	CDR4X8	4	8X	165ms	$89
Nakamichi	MJS16A	5	16X	130ms	$149
SCSI					
Nakamichi	MJS16 int/ext	5	16X	130ms	$219/309

• CD ROM TOWERS •

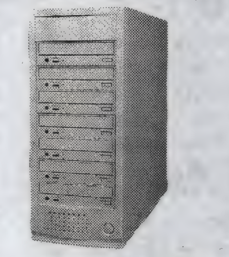
Smart STORAGE SOLUTIONS

For fast access to multiple CD's at one time. Perfect for schools, BBS, networks, and more. Toll free support.

• 4 DRIVE TOWERS •

SCSI			
16X	100ms	NEC	$559
20X	95ms	Plextor	$1069
24X	85ms	NEC	$659
32X	85ms	Toshiba	$719
16X	130ms	Nakamichi	$1199

Nakamichi holds 20 disks!



• 7 DRIVE TOWERS •

SCSI			
16X	100ms	NEC	$1079
20X	95ms	Plextor	$2019
24X	85ms	NEC	$1399
32X	85ms	Teac	$1559
16X	130ms	Nakamichi	$2289

Nakamichi holds 35 disks!

Ethernet CD Towers - Built-in 10 baseT or 100 baseT Ethernet connection. Hooks directly to your network. Designed for mixed LAN environment - can be used simultaneously from Windows 95, NT, OS/2, DOS, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS.

Speed	Brand	Access	7 Drive	Item #	13 Drive	Item #
16X	NEC	100ms	$1659	#SSS1610X7N	$2899	#SSS1610X13P
20X	Plextor	95ms	$2679	#SSS20TSX7N	$4779	#SSS20TSX13P
24X	NEC	85ms	$1819	#SSS1810X7N	$3179	#SSS1810X13P
32X	Toshiba	85ms	$1929	#SSS6201X7N	$3389	#SSS6201X13P
16X	Nakamichi 5 Disk Changers		$3059	#SSSMJ16SX7P	$5079	#SSSMJ16SX13P

100 baseT models add $240 to 7 drive model, and $160 to 13 drive model.
Also available in 4/16Mbps Token Ring connection.

HOT NEW TECHNOLOGY
Tape Backup Drive, Removable Drive & Digital Video Drive

DVDS
INDIGITA CORPORATION

3 DRIVES IN 1!

Tape Backup
- Use as a standard 4mm DAT drive.
- Store 4.8GB on a 90 meter tape
- Store 6GB on a 120 meter tape

Removable Drive
- Use as a removable media drive.
- Included TapeTrax file system software allows you to use this drive just as you would a hard drive under Windows 95.
- Where else could you get online storage for $3 per GB. Need more space? Pop in a tape.

Digital Video Drive
- Picture perfect Digital Video Storage!
- A tape drive fast enough to record and play back digital video!
- Adaptive bandwith recording and playback:
  MPEG-2 3Mbps to 7Mbps
  MPEG-1 1Mbps to 3Mbps
- High sustained transfer rates:
  DVDS 870 Kbytes/sec (RAW)
  DVDS 830 Kbytes/sec (ECC3)
- Store over 2 hours of MPEG-2 broadcast quality video.
- Store 3 hours of DVD encoded video

All this plus high performance
- 200X high speed search capability
- Transfer rates up to 52MB/min

Internal SCSI drive withTapeTrax software
(IDT2500SW) Only $659
Add 6GB of storage to this drive (DAT120M) $14

You can store: DSS/DVB Satellite Recording, Internet Downloading, Interactive Distance Learning, Corporate Intranet Video, Digital PC/TV Storage, Desktop Multimedia, Plus much more.

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Drives - Media - Software - Duplicators - etc.

• Sony 2x6 •
Supports packet write, SCSI caddy load, IDE tray load.
SCSI Internal [CDU926S] / External [CDU926SX] $295*/$385
IDE Internal 2x8 [CDU928S] $299*

• Mitsumi 2x8 • Ask About $30 Rebate!
Supports packet write, 1MB buffer, tray load.
IDE internal includes software & 1 disk [CRMC2800TE] $295

• Matsushita / Panasonic 4x8 •
Supports packet write, 1MB buffer, tray load.
SCSI Internal [CDR7502B] /External [CDR7502BX] $319/$409

• Sony 4x8 •
Supports packet write, 2MB buffer, tray load.
SCSI Internal [CDU948S] /External [CDU948SX] $339*/$429

• Smart Storage Solutions 4x8 •
Supports packet write, 1MB buffer, tray load.
IDE Internal with 1 disk and mastering software [SSS4X8IDE1] $349

• Teac 4x12 •
Packet write, 1MB buffer, tray load
Bare Internal [CDR55S] / External [CDR55SX] $389/$479

• Plextor 4x12 •
Packet write, 1MB buffer, caddy load with tray/caddy adapter.
Bare Internal [PXWRITER] / External [PXWRITERX] $479/$569

* Drive must be purchased with CDR software or media.

CD ROM REWRITAB

• Smart Storage Solutions 2x6 ReWritable •
Writes to CDR (write once) or CDRW(rewritable) media.
Supports packet write, 1MB buffer, tray load. 1 RW & 1 CDR disk.
IDE Internal with software [SSS2X6CDRW] $339

• Ricoh 2x6 ReWritable •
Writes to CDR (write once) or CDRW (rewritable) media
Supports packet write, 1MB is tray load, 2MB is caddy load.
1MB SCSI Internal [RO6200S] / Ext [RO6200SX] $339* / $429
2MB SCSI Internal [RO6201S] / Ext [RO6201SX] $389* / $479
1MB IDE Internal with software & 1 disk [MP6200A] $379
1MB IDE Parallel External w/ software & 1 disk [MP6200AX] $479

• Hewlett Packard 2x6 ReWritable •
SureStore 7200, Writes to CDR (write once) or CDRW(rewritable) media. Supports packet write, 1MB buffer, tray load. 1 RW disk.
IDE Internal with software [C4380A] $399
External for parallel printer port [C4381A] $485

• Yamaha 4x6 ReWritable •
Writes to CDR (write once) at 4X or CDRW (rewritable) media at 2X. Supports packet write, 2MB buffer. Tray loading.
SCSI Internal [YCDR4260] / External [YCDR4260X] $469*/$559

* Drive must be purchased with CDR software or media.

ADD A SCSI CONTROLLER AND MASTERING SOFTWARE TO ANY ABOVE DRIVE FOR $99 [CDRKIT]

CD-R MEDIA

• CD RECORDABLE MEDIA •	Alone	w/CDR Drive
5 Pack [CDR74-5]	$21	$19
20 Pack [CDR74-20]	$42	$39
50 Pack [CDR74-50]	$93	$89
100 Pack [CDR74-100]	$175	$169
Budget 5 Pack [CDR74B-5]	$19	$17
Budget 20 Pack [CDR74B-20]	$36	$33
Budget 50 Pack [CDR74B-50]	$74	$70
Budget 100 Pack [CDR74B-100]	$139	$129
• CD REWRITABLE MEDIA •		
5 Pack [CDR74W-5]	$99	$94
20 Pack [CDR74W-20]	$360	$355
50 Pack [CDR74W-50]	$879	$869
Budget 5 Pack [CDR74WB-5]	$80	$76
Budget 20 Pack [CDR74WB-20]	$299	$289
Budget 50 Pack [CDR74WB-50]	$699	$689
Budget 100 Pack [CDR74WB-100]	$1299	$1289
• CD PRINTABLE MEDIA •		
5 Pack [CDR74P-5]	$28	$25
20 Pack [CDR74P-20]	$65	$62
50 Pack [CDR74P-50]	$139	$135
100 Pack [CDR74P-100]	$259	$249
Budget 5 Pack [CDR74PB-5]	$24	$21
Budget 20 Pack [CDR74PB-20]	$55	$52
Budget 50 Pack [CDR74PB-50]	$119	$109

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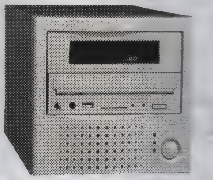
Toll Free Support
Includes 5 FREE Disks

Complete packages include everything you will need to start creating your own audio and data CDs. Drives and software are compatible with Windows 95, & Windows NT. Call for other operating systems.

Internal/External Price	Drive Kit	ISA Kit	PCI Kit	Duo
2x6 SCSI CD Recorder •Sony drive mechanism •2x Record, 6x Read •Packet Write compatible •Caddy loading	**$319/$419** #2X6CDRIN/#2X6CDRXN	**$369/$469** #2X6CDRI/#2X6CDRX	**$429/$529** #2X6CDRIP/#2X6CDRXP	**$679** #2X6CDRXJ/S
2x8 IDE CD Recorder •Sony drive mechanism •2x Record, 8x Read •Packet write compatible •Caddy loading	**$319/n/a** #2X8CDRIN	**$349/$519** #2X8CDRI/#2X8CDRX	**$379/n/a** #2X8CDRP	**n/a**
4x8 SCSI CD Recorder •Packet write compatible •4x Record, 8x Read •Tray loading	**$349/$449** #4X8MIN/#4X8MXN	**$399/$499** #4X8MI/#4X8MX	**$459/$559** #4X8MIP/#4X8MXP	**$709** #4X6MXJ/S
4x8 IDE CD Recorder • 4x Record, 8x Read • Packet Write compatible • Tray loading, 1MB buffer	**$349/n/a** #4X8CDRIN	**$379/$549** #4X8CDRI/#4X8CDRX	**$409/n/a** #4X8CDRP	**n/a**
2x6 SCSI CD ReWritable • Ricoh drive mechanism • 2x Record, 6x Read • Packet Write compatible • CD-R and CD-RW compatible • 1MB version tray loading, 2MB version caddy loading • For 2MB cache version - add $50 to above prices.	**$419/$519** #2X6RWRIN/#2X6RWRXN	**$469/$569** #2X6RWRI/#2X6RWRX	**$519/$619** #2X6RWRIP/#2X6RWRXP	**$799** #2X6CRWRXJ/S
2x4x6 SCSI CD ReWritable • Yamaha drive mechanism • 2x ReWritable, 4x Record, 6x Read • Packet Write compatible • CD-R and CD-RW compatible • Tray loading, 2MB buffer	**$539/$639** #4X2X6YIN/#4X2X6YXN	**$589/$689** #4X2X6YI/#4X2X6YX	**$649/$749** #4X2X6YIP/#4X2X6YXP	**$909** #SSS4X2X6YXJ/S

Drive Kit includes drive, Mastering software for Win 95 and NT, and 5 Free Recordable CDs.
ISA Kit and PCI Kit includes drive, controller, Mastering software for Win 95 and NT, and 5 Free Recordable CDs.



Hot New Product!
CDR/Jaz or CDR/SyJet Combo Units

Create your CD content on the Jaz or SyJet (SyJet 1.5GB drive will hold two CD images) drive - then master directly to the CDR. The perfect CDR setup! See above for price.

New! DuoMaster Combo CD Mastering Unit for PC or Mac.
High quality external combination includes a CD recorder, and an Iomega Jaz or SyQuest SyJet drive. The perfect CD Mastering combination. Create your CD content on the Jaz or SyJet drive, then master directly to the CDR drive. THIS IS THE WAY TO GO!

- Includes 5 FREE recordable CD Disks and 1 FREE Jaz or SyJet disk.
- Includes your choice of EZ CD Creator for PC or Toast for Mac software (please specify).

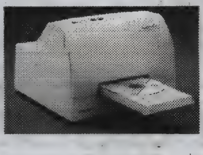
CD-R SOFTWARE

Adaptec Easy-CD Creator **Bundle version $50**
Super easy to use. Supports Windows 95, and Windows NT 3.51, & 4.x.
Direct CD Option for Easy-CD Pro or Easy CD Creator **Bundle version $39**
Works with Easy-CD Pro to allow your CDR to work like a hard drive under Windows 95.
Elektroson Gear **Bundle version $55**
Offers wide range support. Supports Windows 3.1, Windows 95, Windows NT, Macintosh OS.
Elektroson Gear Audio **Retail version $95**
Allows you to record and mix Audio CDs. Allows "cleaning up" audio from originals to get rid of unwanted "noise."
Elektroson Gear Replicator **Retail version $45**
Allows you to copy CDROMs, music CDs, etc. Supports Win 95
Elektroson Web Grabber **Retail version $45**
Allows you to easily store complete Web sites on CDR. Supports Win 3.1, Win 95.
Adaptec Toast CD-ROM Pro **Bundle version $75**
The # 1 mastering software for Macintosh. Supports Mac OS 7 and later on Macintosh or compatible.
Creative Digital Research HyCD for PC **Retail version $359**
To develop Hybrid CD-ROMs integrating PC(ISO 9660 & Joliet), Macintosh (HFS), and UNIX (Rock Ridge Extension) formats on a single CD-ROM.

Note: Bundle versions may only be sold with a CD Recorder drive.

CD-R ACCESSORIES

• CD PRINTER •



Professionally labeled CDs at an affordable price. Signature CD color printer prints on CD printable media. Compatible with Win3.1, 95, NT and MacOS. [CDPRINTER] $1069

• CD LABELER •

Complete CD labeling system. Includes Software with over 1200 predesigned backgrounds & clip art, 100 labels, label applicator, and 20 sets of jewel case inserts.
Alone/With CDR $69/$59

MEGAHAUS **800-786-1185**
8am-8pm M-F 9am - 3pm Sat CST
24 hour secure ordering available at:
www.megahaus.com

MegaHaus is The Drive Authority!

REMOVABLE MEDIA

• Iomega 100MB ZIP •

3 1/2" x 1" high form factor, 13.5ms

Internal IDE w/1 disk [ZIP100AC]	$115
Internal or External SCSI w/ 1 disk	$145
External Parallel & SCSI connector [ZIP100PLUS]	$189
Parallel External with 1 disk	$145
Media qty 2-4/5-9/10+ [ZIP100C]	$17/15/13

Fuji 5 pack [ZIP100C5] $65* 10 pack [ZIP100C10] $115* * after rebate

• 120MB Floppy •

3 1/2" x 1" high form factor, backwards compatible w/ 720K, and 1.44mb floppies. Ask about $30 rebate.

Internal IDE w/ 1 disk [LS120C]	$159
media qty 2-4/5-9/10+ [LS120CART]	$18/16/14
Promise controller [FLOPPYMAX]	$35

• SyQuest 230MB EzFlyer •

3 1/2" x 1" high form factor, 13.5ms

Internal IDE w/ 1 disk [EZ230A]	$146
Parallel External with 1 disk [EZ230PP]	$146
SCSI External with 1 disk [EZ230S]	$146
Media qty 2-4/5-9/10+ [EZ230C]	$24/22/20

• SyQuest 1GB SparQ •

3 1/2" x 1" high form factor

Internal IDE w/ 1 disk [SYSPARQA]	$195
Parallel External with 1 disk [SYSPARQPP]	$195
Media qty 2-4/5-9/10+ [SYSPARQC]	$32/30/28

• Iomega 1GB JAZ •

3 1/2" x 1" high form factor

Internal SCSI with 1 disk [JAZI]	$269
External SCSI with 1 disk [JAZX]	$289
Media qty 2-4/5-9/10+ [JAZC1GIGPC]	$83/81/79

• SyQuest 1.5GB SyJet •

3 1/2" x 1" high form factor, 12ms

Internal IDE w/ 1 disk [SYJET1.5PC]	$290
Internal SCSI w/ 1 disk [SYJET1.5PCI]	$290
Parallel External with 1 disk [SYJET1.5EPP]	$295
SCSI External w/ 1 disk [SYJET1.5PCX]	$295
Media qty 2-4/5-9/10+ [SJ1.5C]	$68/66/64

• Iomega 2GB JAZ •

3 1/2" x 1" high form factor, compatible with Jaz 1GB disks, 10ms read, 12ms write, 512K buffer.

Internal SCSI with 1 disk [JAZ2I]	$539
External SCSI (our case)w/1 disk [JAZ2EX]	$599
External SCSI (iomega case)w/1 disk [JAZ2X]	$639
Media qty 2-4/5-9/10+ [JAZC2GIGPC]	$149/146/142

OPTICAL DRIVES

• Mitsubishi 230 MB •

Compatible with 3 1/2" 128MB, and 230MB disks. 3 1/2"x1" high.

SCSI drive Internal [MIT230] / External [MIT230X]	$289/$349

• Fujitsu 640 MB •

Compatible with 3 1/2" 128MB, 230MB, and 640MB disks.

SCSI drive, 2MB buffer, 1 free disk [DYNAMO640SI]	$399
Ext SCSI drive, 2MB buffer, 1 free disk [DYNAMO640]	$439

• Toray 650 MB •

Combination 650MB rewritable and 8X or 24X CD ROM reader 256K cache, half height 5 1/4", 518 to 1141Kb/sec

IDE 8X CD with 1 disk [PWA650-8]	$309
SCSI 24X CD with 1 disk [PWI650-24]	$309
External SCSI 24X CD with 1 disk [PWI650-24X]	$389
650MB PD disks [PD650A] Qty 2-4/5-9/10+	$31/29/27

• Maxoptix 2.6 Gig •

NEW T5-2600 drive is the fastest MO drive available. 3,868rpm, 19ms, 1MB buffer. Supports direct overwrite media. Compatible with 5 1/4" 650MB, 1GB, 1.3GB, & 2.6GB disks.

SCSI Drive Internal [T5-2600] / External [T5-2600X]	$1189 / $1279

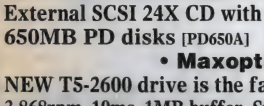
• Hewlett Packard 2.6 Gig •

Compatible with 650MB (read only), 1.3Gig, and 2.6Gig disks. 25ms, 1MB cache, half height 5 1/4", 3000rpm, SCSI

Drive Internal [C1113F] / External [C1113FX]	$2079 / $2179

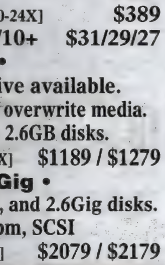
MAKE IT REMOVABLE

Accessories



Cover plate covers exposed frame when cartridge is removed. Snaps on and off. Compatible with DataPort series.
$10 [DPFPLATE]

For Smart Storage Series
$15 [SSSFPLATE]



Weather resistant cartridge carrying case. High impact plastic enclosure with impact absorbing high density foam insert.
$39
[DPCASE]

Compatible with all 3 series cartridges.

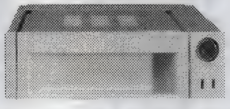
Volume & Dealer inquires invited.

MAKE IT REMOVABLE

Make Your Drive a Removable!

Removable drive brackets allow you to mount a 3 1/2" drive in a removable cartridge. Mount any 3.5" drive in the supplied cartridge, and the frame in a 5.25" drive bay in your computer and you are ready for transportability. These systems are extremely high quality. They feature aluminum frame, gold plated contacts, cooling fan, current protection, LED activity lights & keylock to prevent unwanted removal. Great for many applications such as: security, transportability, data interchange, and RAID. MegaHaus offers 3 different series of removable drive brackets. Transporter Series - for light duty use. Data-Port Series - for medium duty use. And Smart Storage SolutionsSeries for heavy duty/commercial use.

TRANSPORTER SERIES



• COMPLETE KIT •

Includes 1 frame, and 1 cartridge

IDE with plastic cartridge [TRANSIDE]	$79
SCSI with plastic cartridge [TRANSSCSI]	$85

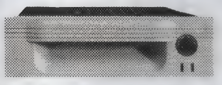
• EXTRA CARTRIDGE •

Plastic IDE [TRANSIDECA]	$39
Plastic SCSI [TRANSSCSICA]	$40

• EXTRA FRAME •

IDE [TRANSIDEFR]	$49
SCSI [TRANSSCSIFR]	$54

DATA-PORT SERIES



• COMPLETE KIT •

Includes 1 frame, and 1 cartridge

IDE with plastic cartridge [DP2200A]	$79
IDE with metal cartridge [DP2200AM]	$99
SCSI with plastic cartridge [DP2200S]	$85
SCSI with metal cartridge [DP2200SM]	$105
SCSI with open face plastic cartridge [DP2200R]	$141
WIDE SCSI with plastic cartridge [DP2200W]	$129
WIDE SCSI with metal cartridge [DP2200WM]	$149
ULTRA WIDE SCSI plastic cartridge [DP2200UW]	$139
ULTRA WIDE SCSImetal cartridge [DP2200UWM]	$159

• EXTRA CARTRIDGE •

Plastic IDE [DPACART]	$39
Metal IDE [DPACARTM]	$59
Plastic SCSI [DPSCART]	$40
Metal SCSI [DPSCARTM]	$60
Plastic WIDE SCSI [DPWCART]	$64
Metal WIDE SCSI [DPWCARTM]	$84
Plastic ULTRA WIDE SCSI [DPUWCART]	$69
Metal ULTRA WIDE SCSI [DPUWCARTM]	$89
Plastic SCSI open face [DPSCARTR]	$96

• EXTRA FRAME •

Metal IDE [DPAFRAME]	$49
Metal SCSI [DPSFRAME]	$54
Metal WIDE SCSI [DPWFRAME]	$75
Metal ULTRA WIDE SCSI [DPUWFRAME]	$80

SMART STORAGE SOLUTIONS SERIES

• COMPLETE KIT •

Metal IDE [SSSDIAKIT]	$99
Metal IDE 1" opening [SSSDIA1KIT]	$105
Metal SCSI [SSSDISKIT]	$105
Metal SCSI 1" opening [SSSDIS1KIT]	$111
Metal SCSI 1.6" opening [SSSDIS6KIT]	$111
Metal WIDE SCSI [SSSDIWKIT]	$149
Metal WIDE SCSI 1" opening [SSSDI1KIT]	$155
Metal WIDE SCSI 1.6" opening [SSSDIW6KIT]	$155

• EXTRA CARTRIDGE •

Metal IDE [SSSDICAS]	$59
Metal IDE 1" opening [SSSDICA1]	$65
Metal SCSI [SSSDICSS]	$60
Metal SCSI 1" opening [SSSDICS1]	$66
Metal SCSI 1.6" opening [SSSDACSD]	$66
Metal WIDE SCSI [SSSDICWS]	$79
Metal WIDE SCSI 1" opening [SSSDICW1]	$85
Metal WIDE SCSI 1.6" opening [SSSDICWD]	$85

• EXTRA FRAME •

Metal IDE [SSSDIFA]	$59
Metal SCSI [SSSDIFS]	$69
Metal WIDE SCSI [SSSDIFW]	$89

TAPE BACKUP

• Seagate 3.2GB TR3 •

Both include backup software for Dos and Windows

Internal - Includes 1 FREE TAPE![TST3200RFT]	$179
External for Parallel Port [TST3200RP]	$189

Extra tapes $29 [TR3] or get 4.4Gig capacity with [TR3EX] tape $31

• Iomega 7GB •

Both include backup software for Dos and Windows

Internal - [DITTOMAXI]	$189
External for Parallel Port [DITTOMAXX]	$189

Tapes 3GB [DITTO3] $19, 5GB [DITTO5] $25, 7GB [DITTO7] $29

• Hewlett Packard 5GB •

Both include backup software for Dos and Windows

Internal [C4355A]	$199
External for Parallel Port [C4362A]	$249
Tapes 5GB [C4429A]	$29

• Seagate 8GB TR4 •

4GB native and 8GB compressed capacity. Backup rate up to 60MB/min. Includes DOS/Win backup software. Tapes $36 [TR4]

Internal IDE [STT28000A]	$249
Internal SCSI [STT28000N]	$295
External SCSI [STT28000NX]	$365

• Iomega 10GB •

Both include backup software for Dos and Windows

Internal [DITTOMAXPRO]	$289
External for Parallel Port [DITTOMAXPRX]	$289

Tapes 5GB [DITTO5] $25, 7GB [DITTO7] $29, 10GB [DITTO10] $33

SCSI TAPE DRIVES

Cap. (Native/Comp.)		Max. Speed	Brand & Model	
4GB	8GB[1]	60MB/min	Seagate STT28000N TR4	$295[2]

• 4mm DAT Drives •

2GB	n/a	11MB/min	HP C1534AI	$569
2GB	4GB	22MB/min	HP C1536AI	$599
2GB	4GB	66MB/min	Seagate STD24000N	$519
4GB	8GB	66MB/min	Seagate DDS-2 STD28000N	$739
4GB	8GB	44MB/min	Sony SDT5000AI	$629
4GB	8GB	90MB/min	Sony SDT7000AI	$649
4GB	8GB	60MB/min	HP C1599AI	$749
6GB	n/a	52MB/min	Indigita IDT2500 (free software)	$619
12GB	24GB	144MB/min	Sony DDS-3 SDT9000AI	$929
12GB	24GB	132MB/min	Seagate STD224000N	$989
12GB	24GB	120MB/min	HP DDS-3 C1554AI	$1059
32GB	64GB	90MB/min	Sony TSL7000X 8 tape loader (Ext)	$2089
48GB	96GB	48MB/min	Seagate STL496000N	$2299
72GB	144GB	120MB/min	HP C5648A 6 tape loader	$2699

• EXABYTE 8mm DAT Drives •

7GB	14GB	120MB/min	ELIANT820	$1389
7GB	14GB	60MB/min	EXB8700LT (Ext)	$665
7GB	14GB	60MB/min	EXB8700SW (Ext with software)	$929
20GB	40GB	360MB/min	EXB8900	$2999
70GB	140GB	60MB/min	EXB10H 10 tape loader	$4029

• QUANTUM DLT Drives •

15GB	30GB	150MB/min	DLT2000XT	$2319
20GB	40GB	180MB/min	DLT4000	$2569
35GB	70GB	600MB/min	DLT7000	$5499
75GB	150GB	150MB/min	DLT2500XT 5 tape loader (Ext)	$4429
100GB	200GB	180MB/min	DLT4500 5 tape loader (Ext)	$5499
105GB	210GB	150MB/min	DLT2700XT 7 tape loader (Ext)	$6099
140GB	280GB	180MB/min	DLT4700 7 tape loader (Ext)	$7459

Call for Rack Mount, Differential, and DLTstor

• AIT Drives •

Sony, Seagate call for price

Compressed capacity is with maximum compression. Speed and amount of compression depends on your application. [1]with software compression. [2]includes tDOS/WIN backup software with compression. Autoloaders may require certain options to get advertised capacity.

• BACKUP SOFTWARE •

Seagate/Arcada

Backup Exec Windows 95 [BUWDWD]	$75
Backup Exec Windows NT workstation [BENTW]	$199
Backup Exec Windows NT single server [BENTSE]	$459
Backup Exec Windows NT enterprise [BENTEE]	$849
Backup Exec Netware Windows workstation [SBENWWK]	$105
Backup Exec Netware single server & 25 users [BENETWARE]	$329
Backup Exec Netware single server & unlimited users [BENETWARESE]	$459
Backup Exec Netware enterprise [BENETWAREEE]	$919

Indigita

TapeTrax software allows most SCSI tape drives to be used as a standard disk drive under Win95 [TAPETRAX]	$99

TapeDisk

TapeDisk software allows most SCSI tape drives to be used as a standard disk drive under DOS, Win3.1, or Win95 [TAPEDISK]	$129

NovaStor

NovaWorks CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, Macintosh, and OS/2 including WARP

Compatible with SCSI, IDE, and QIC drives [NOVACD]	$65
Novell NLM single server [NOVANETJR]	$139
Novell NLM multi server and 50 users [NOVANLM50]	$249
Novell NLM multi server and unlimited users [NOVABACKNLM]	$369

Call 1-800-786-1185 For the Best Buy

CASES & CABLES

• SCSI DRIVE ENCLOSURES •

HH = 5 1/4" half height, 3 1/2" drives can be mounted in a HH bay with an adapter bracket. FH = 5 1/4" full height. HS = redundant hot swap power supplies

part #	drive capacity	power	
3.5CASE	1 3.5"	40W	$75
DUAL3.5CASE	2 3.5", BIG FAN	80W	$99
HHCASET	1 HH	40W	$79
FHCASE	1 FH or 2HH	50W	$119
DUALCASET	2 FH or 4HH	200W	$179
TOWERCASET	4FH or 8HH	300W	$369
QUADCASE	4 FH or 8HH	4x65W	$459
8BAYCASE	4 FH or 8HH	300W	$399
9BAYCASE	4 FH or 9HH	300W	$399
9BAYCASERD	4 FH or 9HH	300W HS	$729
10BAYCASE	5FH or 10HH	300W	$599
10BAYCASERD	5 FH or 10HH	300W HS	$799
14BAYCASE	6FH or 14HH	2x250W	$559
18BAYCASE	4 FH or 9HH	2x300W	$839
18BAYCASERD	4 FH or 9HH	2x300W HS	$1459
20BAYCASE	10FH or 20HH	4x300W HS	$1599

Call for WIDE SCSI, and rack mount cases.

• IDE DRIVE ENCLOSURES •

PPCASEHD	1 3.5"	Attaches to Parallel	$89
PPCASECD	1 HH	Attaches to Parallel	$89
PCMCIA3.5	1 3.5"	Attaches to PC Card	$189
PCMCIACD	1 HH	Attaches to PC Card	$189
HOTPORT1	1 HH	Includes controller	$199

• INTERNAL SCSI CABLES •

# of connectors	WIDE	FAST
3	$35 [CBLFW3]	$9 [CABLESCSI2]
4	$39 [CBLFW4]	$15 [CABLESCSI3]
5	$47 [CBLFW5]	$20 [CABLESCSI4]
6	$51 [CBLFW6]	$25 [CABLESCSI5]
7	$56 [CBLFW7]	$35 [CABLESCSI6]
8	$59 [CBLFW8]	
12	$79 [CBLFW12]	
16	$89 [CBLFW16]	

• EXTERNAL SCSI CABLES •

50 cent. = 50 pin centronics

50 cent. to 50 cent. 1'	[C50TOC50-1]	$15
50 cent. to 50 cent. 2'	[C50TOC50-2]	$20
50 cent. to 50 cent. 3'	[C50TOC50-3]	$20
50 cent. to 50 cent. 6'	[C50TOC50-6]	$25
DB25 to 50 cent. 2'	[C50TODB25-2]	$15
DB25 to 50 cent. 3'	[C50TODB25-3]	$15
DB25 to 50 cent. 6'	[C50TODB25-6]	$25
SCSI-2 to 50 cent. 3'	[SC2TOC50-3]	$20
SCSI-2 to 50 cent. 6'	[SC2TOC50-6]	$35
SCSI-2 to DB25 3'	[SC2TODB25-3]	$25
SCSI-2 to DB25 6'	[SC2TODB25-6]	$35
SCSI-2 to SCSI-2 2'	[SC2TOSC2-2]	$25
SCSI-2 to SCSI-2 3'	[SC2TOSC2-3]	$30
SCSI-2 to SCSI-2 6'	[SC2TOSC2-6]	$35
SCSI-3 to 50 cent. 3'	[SC3TOC50-3]	$45
SCSI-3 to 50 cent. 6'	[SC3TOC50-6]	$49
SCSI-3 to SCSI-2 3'	[SC3TOSC2-3]	$49
SCSI-3 to SCSI-2 6'	[SC3TOSC2-6]	$55
SCSI-3 to SCSI-3 3'	[SC3TOSC3-3]	$59
SCSI-3 to SCSI-3 6'	[SC3TOSC3-6]	$65
Ultra2 to Ultra2 18"	[U2TOU2-6]	$169
Ultra2 to Ultra2 3'	[U2TOU2-6]	$179
Ultra2 to Ultra2 6'	[U2TOU2-6]	$249
PowerBook to 50 cent 3'	[POWERBOOKCB]	$25

• SCSI TERMINATORS •

50 centronics passive end cap [SCSITERM]	$5
50 centronics active end cap [ACTTERM]	$22
SCSI-2 active end cap [SCSITERM2]	$26
Wide SCSI passive end cap [SCSITERMFW]	$35
Wide SCSI active end cap [SCSITERMFWA]	$45
Differential Wide SCSI active end cap [SCSITERMFWD]	$45
Ultra-2 SCSI passive terminator [ULTRA2TERM]	$109
Ultra-2 SCSI active terminator [ULTRA2TERMA]	$169
Internal inline passive [INLINETERM]	$15
Internal inline active [INLINETERMA]	$29
50 centronics forced perfect termination with 7 status LEDs [SCSISNIFF]	$45

• SCSI SWITCH •

Switch SCSI peripherals between two computers or switch two chains of peripherals on one computer. Regenerates SCSI signal to increase maximum overall cable length.

2 way SCSI Switch box [SCSI2SWITCH] $499

• DRIVE BRACKETS •

Mount a 3.5" hard drive in a 5.25" bay [CBRACKET]	$8
Mount a 3.5"x1" high removable in a 5.25" bay[FBRACKET]	$8
Mount a 3.5"x1.6" high removable in a 5.25" bay[OPBRACKET]	$25
Mount a 2.5" IDE hard drive in a 3.5" bay [IDEKIT-212]	$20
Mount a 2.5" SCSI hard drive in a 3.5" bay [SCSIKIT-212]	$20

LAPTOP DRIVES

Smart STORAGE SOLUTIONS

• PCMCIA & PARALLEL PORT DRIVES •

High quality! Parallel compatible with any parallel printer port. Output for concurrent printer use. EPP compliant.

	Parallel	PCMCIA
Hard Drives (3yr warranty on drive mechanism)		
2Gig	$239 [SSSPP2GIG]	$339 [SSSPCM2GIG]
3Gig	$279 [SSSPP3GIG]	$379 [SSSPCM3GIG]
4Gig	$299 [SSSPP4GIG]	$399 [SSSPCM4GIG]
6Gig	$369 [SSSPP6GIG]	$469 [SSSPCM6GIG]
7Gig	$449 [SSSPP7GIG]	$549 [SSSPCM7GIG]
8Gig	$499 [SSSPP8GIG]	$599 [SSSPCM8GIG]
CD ROM Drives		
8X 4 Disk changer	$179 [SSSPP8X4CD]	$279 [SSSPCM8X4CD]
16X	$149 [SSSPP16XCD]	$249 [SSSPCM16XCD]
24X	$159 [SSSPP24XCD]	$259 [SSSPCM24XCD]
32X	$179 [SSSPP32XCD]	$279 [SSSPCM32XCD]

• LAPTOP DRIVES •

2 1/2" hard drives for your laptop computer.

1400MB	Toshiba	.5" high	13ms	MK1401MAV	$185
2100MB	Hitachi	.5" high	12ms	DK225A21	$185
2167MB	Toshiba	.5" high	13ms	MK2104MAV	$198
3200MB	Hitachi	.5" high	12ms	DK226A32	$269
3240MB	IBM	.5" high	13ms	DT23240	$399
3250MB	Toshiba	.5" high	13ms	MK3205MAV	$282
4090MB	IBM	.5"high	12ms	DT24090	$519
5120MB	IBM	.75" high	12ms	DP25120	$639

2.5" to 3.5" IDE adapter kit [IDEKIT-2.5] $22

2.5" parallel case $89 [PPCASE2.5] PCMCIA case $169 [PCMCIACASE2.5]

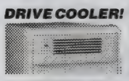
PCMCIA DRIVES 20X portable CD ROM (PCMCIA20X) $199. Call for hard drives.

COOL STUFF

• Keep Your Drives Cool! •

High rpm drives create a lot of heat. Protect your data.

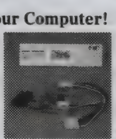
DRIVE COOLER!



[VHDFAN] $30

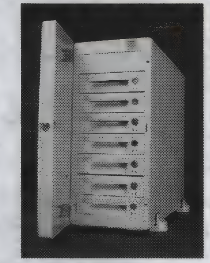
Protect your drive with the Drive Cooler. Features dual cooling fans and heat activeated circuitry to increase fan speed as the drive gets warmer. A necessity for 7200 and 10,000 rpm drives.

Monitor the Temperature Inside Your Computer!



Int. version features audible alarm that sounds at high temperature setting. Ext. version has a large LCD temperature display & mounts in place of 5 1/4" drive bezel.

Int. [CPVUE2] $25 Ext. [CPVUE] $25



RAID CASE

Includes 7 hot swap drive shuttles. Features hot swappable power supplies.

Tower Case	
Ultra SCSI	$939
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Rack Mount Case	
Ultra SCSI	$999
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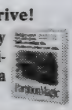
Copy or Change Your Entire Hard Drive!

Drive Copy allows you to easily copy your old hard drive to a new one. Partition Magic allows you to repartition a hard drive without losing any data.



Drive Copy [PQDC] $29 Partition Magic [PQPM] $69

MEDIA

Tapes		2-4	5-9	10-29
TR1	[TR1]	$27	$24	$22
TR1EX	[TR1EX]	$27	$24	$22
TR3	[TR3]	$29	$26	$24
TR3EX	[TR3EX]	$28	$25	$23
TR4	[TR4]	$32	$29	$27
MC3000XL	[MC3000XL]	$28	$25	$23
MC3020EX	[MC3020EX]	$30	$27	$25
QW5122	[QW5122]	$14	$13	$12
QW3020	[QW3020]	$29	$26	$24
QW3080	[QW3080]	$29	$26	$24
4mm 90M	[DAT90M]	$12	$9	$7
4mm 120M	[DAT120M]	$17	$14	$12
4mm 125M	[DAT125M]	$31	$28	$26
8mm 112M	[DAT112M8MM]	$13	$10	$8
8mm 160M	[DAT160M8MM]	$18	$15	$13
DC2120	[DC2120]	$16	$13	$11
DC2120XL	[DC2120XL]	$19	$16	$14
DC6250	[DC6250]	$20	$18	$16
DC6525	[DC6525]	$22	$20	$18
DLTIII	[DLT3]	$43	$41	$39
DLTIII-XT	[DLT3XT]	$53	$51	$49
DLTIV	[DLT4]	$89	$87	$85
Optical Disks (LIFETIME WARRANTY)				
128MB	[TJ128]	$13	$10	$8
230MB	[TJ230]	$14	$11	$9
540MB 3 1/2"	[TJ540]	$27	$24	$22
640MB 3 1/2"	[TJ640]	$29	$26	$24
600MB 512K	[TJ600]	$29	$26	$24
650MB 1024K	[TJ650]	$29	$26	$24
1.2GB 512K	[TJ1.2]	$33	$31	$29
1.3GB 1024K	[TJ1.3]	$33	$31	$29
2.3GB 512K	[TJ2.3]	$45	$43	$41
2.6GB 1024K	[TJ2.6]	$45	$43	$41
SyQuest				
44MB	[SQ400]	$42	$40	$38
88MB	[SQ800]	$42	$40	$38
135MB	[EZDISK]	$22	$19	$17
200MB	[SQ2000]	$64	$62	$60
230MB	[EZ230C]	$25	$22	$20
270MB	[SQ327]	$43	$40	$38
1GB	[SYSPARQC]	$34	$31	$29
1.5GB	[SJ1.5C]	$59	$57	$55
Iomega				
100MB ZIP	[ZIP100C]	$20	$12	$10
1Gig JAZ	[JAZC1GIGPC]	$83	$80	$78
1Gig JAZ	[JAZC1GIGMAC]	$84	$81	$79
2Gig JAZ	[JAZC2GIGPC]	$159	$157	$155
2Gig JAZ	[JAZC2GIGMAC]	$159	$157	$155
150MB Bernoulli	[IO150BR]	$73	$71	$69
230MB Bernoulli	[IO230BR]	$76	$74	$72
Cleaning Cartridges				
4mm	[DAT4MMCLEAN]	$16	$13	$11
8mm	[DAT8MMCLEAN]	$21	$19	$17
Miscellaneous				
4.6GB Optical 1024K	[OMDR4.6]	$163	$161	$159
650MB PD disks	[PD650A]	$33	$31	$29
CD Caddies	[CDCADDY]	$8	$7	$6

Fuji Brand *price after rebate, limited time

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DC2120XL media 2 pack [DC2120XL2]	$22*
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8mm tape 112M 2 pack [DAT8MM112M2]	$15*
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DLT2000 [DLT2]	$40
DLT4000 [DLT4]	$99
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Teac	1.4MB 3 1/2" [F14]	$34
LS120	120MB 3 1/2" [LS120]$149 (ask about $30 rebate)	

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CONTROLLERS

DPT Distributed Processing Technology

Expandable to RAID and Caching.

PM2044U PCI Ultra SCSI bare/kit	$199/249
PM2044W PCI WIDE SCSI	$259
PM2044UW PCI Ultra WIDE SCSI bare/kit	$249/279
PM2144UW PCI Ultra Wide SCSI	$439
RC4040 RAID/Caching module for above	$379
RC4040/4 RAID/Caching Module w/4MB ECC	$559
SM4000/4 4MB ECC SIMM	$269
SM4000/16 16MB ECC SIMM	$899
PM3334UW PCI Ultra WIDE SCSI RAID 0, 1, 5	$1099
PM3334UW/2 2 channel version of above	$1279

gsi™ **SAVE $5 with Hard Drive Purchase!**

1533-12 2Mb/sec floppy controller	$49
1533-1C Supports 2 IDE drives	$35
1533-2C Supports 4 EIDE	$49
1533-21 Supports 2 IDE drives, 4 floppy drives	$54
1533-32 Supports 2 IDE drives, 4 Floppy Drives has 2 high speed (16550) serial ports and 1 bi-directional parallel port	$89
1533-4C Supports 8 IDE drives	$114

ARCO COMPUTER PRODUCTS, INC.

IDE RAID CONTROLLER

- RAID 1(mirroring) works w/ most operating systems.
- Jumperless, 100% data redundancy, 4 drive support
- Works w/ existing IDE controller [ARDUPLIDISK] $219

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High-Performance Bus Mastering SCSI, Adaptec compatible.

ABP5140 ISA 16Bit with floppy support	$105
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ABP940UW PCI 32Bit Ultra WIDE SCSI	$152
ABP980U PCI 32Bit Ultra SCSI 4 Channel for 28 drives!	$349

PROMISE TECHNOLOGY, INC. **SAVE $5 with Hard Drive Purchase!**

ULTRA33 PCI, Supports new Ultra IDE drives	$64
EIDE2300+ VESA, Supports 4IDE, 2 floppy (Incl. 2.8), 2 High speed serial (16550) 1 EPP Parallel port (Bi directional) 1 Game port	$59
EIDEMAX ISA, Supports 2 IDE drives	$38
EIDEPRO ISA, supports EIDE, 1 EPP parallel, floppy, and 2 16550 serial	$59
FLOPPYMAX ISA, bootable card for LS-120	$35

FASTTRAK • PCI, IDE RAID controller $129
- Run RAID 0, 1, or 0/1 with IDE Drives
- Background data rebuild • Ultra ATA compatible
- Compatible with most major operating systems.

adaptec

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1520 ISA 16Bit SCSI	$79	$139
1542 ISA 16Bit Busmaster SCSI, Floppy	$189	$245
2940U PCI 32Bit Ultra SCSI (Bus Master)	$190	$255
2940UW PCI 32Bit Ultra WIDE SCSI (Bus Master)	$209	$285
2940U2W PCI 32Bit Ultra -2 WIDE SCSI (Bus Master)		$399
2940MUW PCI 32Bit WIDE SCSI for Macintosh (Bus Master)		$289
1505 ISA 16Bit SCSI (no hard drive support)		$65
1515 ISA 16Bit SCSI		$89
1640 MicroChannel SCSI		$329
2742T EISA 32Bit SCSI, Floppy (Twin Channel)		$349
2742W EISA 32Bit WIDE SCSI, Floppy		$399
2920 PCI 32Bit SCSI (PIO)		$145
2944WD PCI 32Bit WIDE Diff. SCSI (Bus Master)		$395
T358 EPP Parallel to SCSI adapter (SCSI-1 connector)		$125
T358A EPP Parallel to SCSI adapter (SCSI-2 connector)		$130
T1450A PCMCIA to SCSI (WIN95 only)		$109
T1460 PCMCIA type 2, 3, or 4 to SCSI		$175
A3940 Twin Channel PCI SCSI (14 Drives)		$379
A3940UW Twin Channel PCI Ultra WIDE SCSI		$469
A3940MUW Twin Channel PCI Ultra WIDE fo Mac		$529
AHA8945 1394 FireWire & UW SCSI PCI for PC & Mac		$639

Adaptec PCI RAID controller
- Compatible with Win NT, OS/2, NetWare, etc
- Runs RAID level 0,1,0/1, and 5
- Supports Fast, Wide, Ultra, or Ultra Wide drives
- Hot swap and hot spare support.

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Triple Channel for 21narrow or 45 wide AAA133	$719

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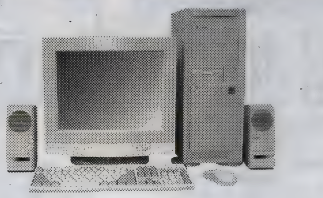

Common Futures: Advanced Intel i440LX Chipset, Intel PentumII Processor with MMX Technology, Integrated 512K Cache, 2-USB Ports, 1.44MB High Density Diskette Drive, 7-Bay Tower or 6-Bay Desktop configuration, Yamaha 32-Bit Wavetable Sound Card, 140 Watt Amplified Speakers with Bass and Treble control, Internal 56K (K-Flex or x2) DSVD Fax Modem, 104-Key Soft Touch Keyboard, Microsoft IntelliMouse, Microsoft Windows95 SR2.1B w/USB support, Microsoft Office 97 Small Business Edition (only with SP6-330/ 345/ 370 -- *Includes: Word 97, Excel 97, Publisher 97, Outlook, Small Business Financial Manager 97 and Automap Streets Plus)*, Microsoft Internet Explorer, 3-Year Warranty (Parts & Labor).

PROLENNIA™ SP6-310 233
233MHz PENTIUM-II® PROCESSOR W/MMX™

Intel PentiumII 233MHz w/ MMX Tech.
32MB SDRAM 64-Bit Memory
WDC 4.3GB Ultra ATA Hard Drive
Toshiba 32X MAX Variable CD-ROM
3D 4MB AGP Video Accelerator
with PC2TV Output
15" Flat Screen (13.9" Viewable)Monitor

$1299
business lease for $46/mo.

SP6-310 266MHz.................................. $1399
SP6-310 300MHz.................................. $1549
SP6-310 333MHz.................................. $1799

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PROLENNIA™ SP6-330 300
300MHz PENTIUM-II® PROCESSOR W/MMX™

Intel PentiumII 300MHz w/ MMX Tech.
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WDC 6.4GB Ultra ATA Hard Drive
Toshiba 32X MAX Variable CD-ROM
STB Velocity128 *(Riva128)* 3D 4MB
15" Flat Screen (13.9" Viewable)Monitor
17" Flat Screen OSD Monitor add $ 150

$1799
business lease for $63/mo.

SP6-310 233MHz.................................. $1549
SP6-310 266MHz.................................. $1649
SP6-310 333MHz.................................. $2049

Order Code # SYP0502

PROLENNIA™ SP6-345 300
300MHz PENTIUM-II® PROCESSOR W/MMX™

Intel PentiumII 300MHz w/ MMX Tech.
64MB SDRAM 64-Bit Memory
WDC 6.4GB Ultra ATA Hard Drive
Toshiba DVD-ROM Drive
ATI Xpert@Play 8MB AGP Accelerator
DVD / MPEG Decoder, PC2TV output
17" Flat Screen (15.9" Viewable)Monitor
19" Flat Screen OSD Monitor add $ 320

$1999
business lease for $70/mo.

SP6-310 233MHz.................................. $1749
SP6-310 266MHz.................................. $1849
SP6-310 333MHz.................................. $2249

Order Code # SYP0503

PROLENNIA™ SP6-370 SCSI
333MHz PENTIUM-II® PROCESSOR W/MMX™

Intel PentiumII 333MHz w/ MMX Tech.
64MB SDRAM 64-Bit Memory
Integrated Adaptec 2940UW SCSI Interface
4.3GB UltraWide SCSI Hard Drive
Toshiba 32X MAX Variable SCSI CD-ROM
STB Velocity128 *(Riva128)* 3D 4MB
15" Flat Screen (13.9" Viewable)Monitor
17" Flat Screen OSD Monitor add $ 150

$2199
business lease for $77/mo.

SP6-310 233MHz.................................. $1699
SP6-310 266MHz.................................. $1799
SP6-310 300MHz.................................. $1949

Order Code # SYP0504

NOTEBOOK COMPUTERS

FUJITSU	**LifeBook 585Tx**	233MHz w/MMX	32MB/96MB	3.2GB	12.1" XGA TFT	16-bit Wavetable	20x MAX	33.6K V/F/D	**$ 3099**
	LifeBook 985Tx	233MHz w/MMX	32MB/96MB	5.0GB	13.3" XGA TFT	16-bit Wavetable	20x MAX	56K DSVD	**$ 4199**
HITACHI	**VisionBook Pro 7340**	133MHz w/MMX	16MB/144MB	1.45GB	12.1" XGA TFT	ESS 16-bit	10x MAX	56K DSVD	**$ 1599**
	VisionBook Pro 7370	200MHz w/MMX	32MB/144MB	3.2GB	12.1" XGA TFT	ESS 16-bit	20x MAX	56K DSVD	**$ 2849**
	VisionBook Pro 7560	166MHz w/MMX	32MB/144MB	3.2GB	13.3" XGA TFT	ESS 16-bit	10x MAX	56K DSVD	**$ 2379**
	VisionBook Pro 7580	233MHz w/MMX	32MB/144MB	3.2GB	13.3" XGA TFT	ESS 16-bit	20x MAX	56K DSVD	**$ 3299**
ASUS	**P-6300**	233MHz w/MMX	32MB/144MB	3.2GB	13.3" XGA TFT	Yamaha 16-bit	20x MAX	Optional	**$ 3599**
TOSHIBA	**Tecra 520CDT**	166MHz w/MMX	32MB/160MB	2.0GB	12.1" XGA TFT	16-bit Wavetable	10x MAX	Optional	**$ 2949**
	Tecra 520CDT	166MHz w/MMX	32MB/160MB	4.0GB	12.1" XGA TFT	16-bit Wavetable	10x MAX	Optional	**$ 3079**
	Tecra 530CDT	166MHz w/MMX	32MB/160MB	2.0GB	12.1" XGA TFT	16-bit Wavetable	10x MAX	33.6K V/F/D	**$ 3129**
	Tecra 740CDT	166MHz w/MMX	16MB/160MB	2.8GB	13.3" XGA TFT	16-bit Wavetable	20x MAX	33.6K V/F/D	**$ 3919**
	Tecra 750CDM	233MHz w/MMX	32MB/160MB	4.8GB	13.3" XGA TFT	16-bit Wavetable	20x MAX	56K DSVD	**$ 4899**
	Tecra 750DVD	233MHz w/MMX	64MB/160MB	4.8GB	13.3" XGA TFT	16-bit Wavetable	DVD ROM	56K DSVD	**$ 5299**

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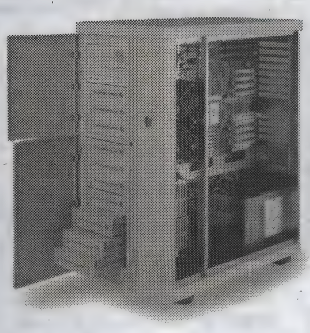

Common Futures: Advanced Intel i440LX Chipset, Intel PentumII Processor(S) with MMX Technology, Integrated 512K(1024K) Cache, 2-USB Ports, 1.44MB High Density Diskette Drive, 3-Com Etherlink 905XL 10/100BT NIC, 104-Key Soft Touch Keyboard, Microsoft IntelliMouse, Microsoft WindowsNT Server (5 Client Licence), Microsoft Internet Explorer, 3-Year Warranty (Parts & Labor).

QUADRATT™ XGL200
266MHz PENTIUM-II® PROCESSOR W/MMX™

One Intel PentiumII 266MHz w/ MMX Tech.
Dual PentiumII Processor Socket
64MB ECC SDRAM 64-Bit Memory
Integrated Adaptec 2940UW SCSI Interface
4.3GB UltraWide SCSI Hard Drive (40MB/s)
32X MAX Variable Fast SCSI CD-ROM Drive
3D 4MB AGP Video Accelerator
10-Bay Server Building Block Chassis
300 Watt, 3-Fan, Swing-open Side Doors
15" Flat Screen (13.9" Viewable)Monitor

$2449
business lease for $86/mo.

XGL200 266MHz Dual $2899
XGL200 300MHz Single / Dual....... $2649 / $3199
XGL200 333MHz Single / Dual....... $2999 / $3899

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QUADRATT™ XGL400
300MHz PENTIUM-II® PROCESSOR W/MMX™

Two Intel PentiumII 300MHz w/ MMX Tech.
Dual PentiumII Processor Socket
128MB ECC SDRAM 64-Bit Memory
Adaptec AAA-130 RAID Controller
UW SCSI Interface, 4MB Cache
4 - 4.3GB UltraWide SCSI Hard Drives
(1 Boot Drive, 3 Drives in RAID)
32X MAX Variable Fast SCSI CD-ROM Drive
12/24GB Veriable SCSI DAT Backup add $899
3D 4MB AGP Video Accelerator
10-Bay Server Building Block Chassis
300 Watt, 3-Fan, Swing-open Side Doors
15" Flat Screen (13.9" Viewable)Monitor

$4899
business lease for $152/mo.

XGL400 266MHz Single / Dual....... $4199 / $4599
XGL400 300MHz Single.............................. $4349
XGL400 333MHz Single / Dual....... $4699 / $5599

Order Code # SYP0506

QUADRATT™ XGL600
300MHz PENTIUM-II® PROCESSOR W/MMX™

Two Intel PentiumII 300MHz w/ MMX Tech.
Dual PentiumII Processor Socket
256MB ECC SDRAM 64-Bit Memory
Adaptec AAA-130 RAID Controller
UW SCSI Interface, 4MB Cache
3 - 9.4GB UltraWide SCSI Hard Drives
4.3GB UltraWide SCSI Hard Drive
(4.3GB Boot Drive, 3-9.4GB Drives in RAID)
12/24GB Veriable SCSI DAT Backup
32X MAX Variable Fast SCSI CD-ROM Drive
3D 4MB AGP Video Accelerator
12-Bay Server Building Block Chassis
2-300W Redundant, Hot Swap Ungradable
15" Flat Screen (13.9" Viewable)Monitor

$8299
business lease for $258/mo.

XGL600 300MHz Single.............................. $7799
XGL600 333MHz Single / Dual....... $8099 / $8999

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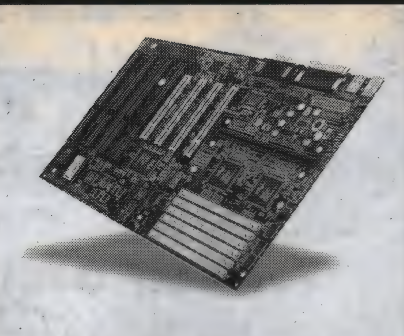

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SUPERMICRO® P5MMA-98	PC-98 Ready, 512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 2/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, AMI Flash BIOS, 12"x8.3" ATX	$ 115
TYAN® 1564S Tomcat-4 Single	512K Pipeline Cache, Intel 430HX Chipset, 8/72-pin SIMM Sockets, 4-PCI/5-ISA Slots, Award Flash BIOS, 8.6"x13" Baby AT	$ 119
TYAN® 1564D Tomcat-4 Dual	512K Pipeline Cache, Intel 430HX Chipset, 8/72-pin SIMM Sockets, 4-PCI/5-ISA Slots, Award Flash BIOS, 8.6"x13" Baby AT	$ 169
TYAN® 1573 Titan Turbo ATX	512K Pipeline Cache, Intel 430TX Chipset, 6/72-pin SIMM and 2/168-pin DIMM Sockets, 5-PCI/3-ISA Slots, AMI Flash BIOS, 8.3"x12" ATX	$ 99
TYAN® 1571 Titan Turbo AT	512K Pipeline Cache, Intel 430TX Chipset, 6/72-pin SIMM and 2/168-pin DIMM Sockets, 5-PCI/4-ISA Slots, Award Flash BIOS, 8.8"x11" Baby AT	$ 99
GIGABITE® GA-586TX3	512K Pipeline Cache, Intel 430TX Chipset, 2/72-pin SIMM and 3/168-pin DIMM Sockets, 4-PCI/3-ISA Slots, Award Flash BIOS, Baby AT	$ 99
GIGABITE® GA-586ATX3	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 2/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 109
ASUS® TXP4	512K Pipeline Cache, Intel 430HX Chipset, 4/72-pin SIMM Sockets, 4-PCI/3-ISA Slots, Award Flash BIOS, 8.7"x10.7" Baby AT	$ 109
ASUS® TX97	512K Pipeline Cache, Intel 430TX Chipset, 3/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, Award Flash BIOS, 11.1"x8.6" Baby AT	$ 119
ASUS® TX97-E	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 2/168-pin DIMM Sockets, 4-PCI/3-ISA Slots, Award Flash BIOS, 11.1"x8.6" Baby AT	$ 119
ASUS® TX97X	512K Pipeline Cache, Intel 430TX Chipset, 3/168-pin DIMM Sockets, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 129
ABIT® PX5- Jumperless (CPU SOFT MENU™ Technology)	512K Pipeline Cache, Intel 430TX Chipset, 2/72-pin SIMM and 2/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, Award Flash BIOS, Baby AT	$ 89
ABIT® TX5- Jumperless (CPU SOFT MENU™ Technology)	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 2/168-pin DIMM Sockets, 4-PCI/3-ISA Slots, Award Flash BIOS, Baby AT	$ 99
ABIT® AX5- Jumperless (CPU SOFT MENU™ Technology)	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 3/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 99
Iwill® P55-XB2	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 2/168-pin DIMM Sockets, 5-PCI/3-ISA Slots, Award Flash BIOS, Baby AT	$ 105
Iwill® P55-XUWB	512K Pipeline Cache, Intel 430TX Chipset, 3/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, RAIDBUS Slot, Adaptec AHA-2940UW SCSI Interface, Award 2MB Flash BIOS, Baby AT	$ 219
Iwill® P55-XUW	512K Pipeline Cache, Intel 430TX Chipset, 4/72-pin SIMM and 3/168-pin DIMM Sockets, 4-PCI/4-ISA Slots, RAIDBUS Slot, Adaptec AHA-2940UW SCSI Interface, Award 2MB Flash BIOS, ATX Form Factor	$ 219

Pentium® II based motherboards

SUPERMICRO® P6SLA	PC-98 Ready/ACPI, 512K CPU Cache, Intel 440LX Chipset, 4/72-pin SIMM Sockets, 3/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, AMI Flash BIOS, ATX Form Factor	$ 135
SUPERMICRO® P6SLS	PC-98 Ready/ACPI, 512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 2940UW UltraWide SCSI Interface, 4-PCI/3-ISA Slots, AMI Flash BIOS, ATX Form Factor	$ 229
SUPERMICRO® P6DLE (Dual Pentium-II®)	PC-98 Ready/ACPI, 512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, AMI Flash BIOS, ATX Form Factor	$ 219
SUPERMICRO® P6DLS (Dual Pentium-II®)	PC-98 Ready/ACPI, 512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 2940UW UltraWide SCSI Interface, 4-PCI/3-ISA Slots, AMI Flash BIOS, ATX Form Factor	$ 319
SUPERMICRO® P6DLF (Dual Pentium-II®)	PC-98 Ready/ACPI, 512K CPU Cache, Intel 440LX Chipset, 8/72-pin SIMM Sockets, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, AMI Flash BIOS, Full AT Size	$ 279
SUPERMICRO® P6DLH-2 (Dual Pentium-II®)	PC-98 Ready/ACPI, I,O Ready with i960 RD I/O Processor, 512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 8-PCI/3-ISA Slots, AMI Flash BIOS, Full AT Size	$ 579
Iwill® DP II LS2 (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM sockets, 1-AGP Connector, 3940UW Multichannel UltraWide SCSI Interface, RAIDBUS, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 419
Iwill® PIILS	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM sockets, 1-AGP Connector, 2940UW UltraWide SCSI Interface, RAIDBUS, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 279
GIGABYTE® GA-686BLX	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/2-ISA Slots, Award Flash BIOS, Baby AT	$ 135
GIGABYTE® GA-686LX-3	512K CPU Cache, Intel 440LX Chipset, 3/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 125
GIGABYTE® GA-686LX	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 135
GIGABYTE® GA-686DL2 (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 209
GIGABYTE® GA-686DLX (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 2940UW UltraWide SCSI Interface, RAIDBUS, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 299
ABIT® LX6	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/3-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 135
TYAN® 1692S Tiger ATX	512K CPU Cache, Intel 440LX Chipset, 4-168-pin DIMM Sockets, 5-PCI/3-ISA Slots, 1-AGP Connector, Award Flash BIOS, Baby AT	$ 149
TYAN® 1692DL Tiger-2 (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4-168-pin DIMM Sockets, 5-PCI/2-ISA Slots, 1-AGP Connector, Award Flash BIOS, Baby AT	$ 249
TYAN® 1696DLUA Thunder-2 (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4-168-pin DIMM Sockets, 4-PCI/2-ISA Slots, 1-AGP Connector, Built-in Adaptec 3940 UW SCSI, Onboard Audio, Award Flash BIOS, Baby AT	$ 429
ASUS® P2L97	512K CPU Cache, Intel 440LX Chipset, 3/168-pin DIMM, 1-AGP Connector, 5-PCI/2-ISA Slots, Award Flash BIOS, ATX Form Factor	$ 149
ASUS® P2L97-S	512K CPU Cache, Intel 440LX Chipset, 3/168-pin DIMM, 1-AGP Connector, 4-PCI/2-ISA Slots, Adaptec 2940UW UltraWide SCSI, Award Flash BIOS, ATX Form Factor	$ 229
ASUS® P2L97-DS (Dual Pentium-II®)	512K CPU Cache, Intel 440LX Chipset, 4/168-pin DIMM, 1-AGP Connector, 4-PCI/2-ISA Slots, Adaptec 2940UW UltraWide SCSI, Award Flash BIOS, ATX Form Factor	$ 359

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Intel Pentium® 200MHz Processor w/MMX tech	$ 135
Intel Pentium® 233MHz Processor w/MMX tech	$ 189
Intel Pentium II® 233MHz Processor w/MMX™ tech	$ 259
Intel Pentium II® 266MHz Processor w/MMX™ tech	$ 359
Intel Pentium II® 300MHz Processor w/MMX™ tech	$ 489
Intel Pentium II® 333MHz Processor w/MMX™ tech	$ 719
AMD K6-PR166 Processor w/MMX™ tech	$119
AMD K6-PR200 Processor w/MMX™ tech	$ 125
AMD K6-PR233 Processor w/MMX™ tech	$ 169
Cyrix 6x86MX-PR166 Processor w/MMX™ tech	$ 69
Cyrix 6x86MX-PR200 Processor w/MMX™ tech	$ 85
Cyrix 6x86MX-PR233 Processor w/MMX™ tech	$ 115

Memory

add to the price of the motherboard

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16MB 72-pin FastPage SIMM (4x32, 60ns)	$ 39
32MB 72-pin FastPage SIMM (8x32, 60ns)	$ 65
8MB 72-pin EDO SIMM (2x32, 60ns)	$ 19
16MB 72-pin EDO SIMM (4x32, 60ns)	$ 35
32MB 72-pin EDO SIMM (8x32, 60ns)	$ 65
64MB 72-pin EDO SIMM (8x32, 60ns)	$ 129
8MB 72-pin Parity SIMM (2x36, 60ns)	$ 29
16MB 72-pin Parity SIMM (4x36, 60ns)	$ 45
32MB 72-pin Parity SIMM (8x36, 60ns)	$ 75
16MB 168-pin SDRAM DIMM (2x64, 10ns)	$ 39
32MB 168-pin SDRAM DIMM (4x64, 10ns)	$ 65
64MB 168-pin SDRAM DIMM (8x64, 10ns)	$ 129
128MB 168-pin SDRAM DIMM (16x64, 10ns)	$ 259

Hard Drives

Western Digital Caviar 2.5GB (Ultra ATA)	149
Western Digital Caviar 3.2GB (Ultra ATA)	169
Western Digital Caviar 4.3GB (Ultra ATA)	189
Western Digital Caviar 6,4GB (Ultra ATA)	255
Western Digital Enterprise 4.3GB (Ultra Wide SCSI)	469
Western Digital Enterprise 9.4GB (Ultra Wide SCSI)	719
Quantum Fireball 3.2GB (Ultra ATA)	169
Quantum Fireball 4.3GB (Ultra ATA)	189
Quantum Fireball 6.4GB (Ultra ATA)	249
IBM Dors 2.1GB UltraWide SCSI	239
IBM Dors 4.3GB UltraWide SCSI	319

Storage

Panasonic LS-120MB Floppy Drive	99
Iomega Ditto 2GB Internal Tape Drive	135
Iomega Ditto 2GB External Tape Drive	169
Iomega Ditto MAX 7GB Ext. or Int. Tape Drive	199
Iomega Ditto PROMAX 10GB Ext. or Int. Tape Drive (w/tape)	279
Iomega Zip 100MB EIDE (OEM)	89
Iomega Zip 100MB Printer Port (w/media)	139
Iomega Zip 100MB External SCSI (w/media)	139
Iomega 1GB Jaz Internal SCSI w/1GB Cartridge	289
Iomega 1GB Jaz External SCSI w/1GB Cartridge	379
Iomega 2GB Jaz Internal SCSI w/2GB Cartridge	499
Iomega 2GB Jaz External SCSI w/2GB Cartridge	579

SCSI Controllers

Diamond Fireport 40 UltraWide PCI SCSI kit	159
Adaptec AHA-2940 PCI Fast SCSI-2 kit	169
Adaptec AHA-2940W PCI Wide SCSI-2 kit	169
Adaptec AHA-2940UW UltraWide SCSI kit	189
Adaptec AHA-2940U2W Ultra2Wide SCSI kit	call
Adaptec AHA-3940UW UltraWide SCSI kit	429
Adaptec ARO-1130 RAID Port Controller	259
Iwill SIDE™-2930U PCI Ultra SCSI Controller kit	99
Iwill SIDE™-2930U PCI Ultra Wide SCSI Controller kit	119

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Sportster 33.6 Voice Internal	89
Sportster 56K Voice Internal	109
Sportster 56K Voice External	199
Harmony 33.6 Voice Internal	49
Harmony 33.6 External Voice	65
Harmony 56K Kflex or x2 Internal Voice	65
Harmony 56K KFlex External Voice	79

VideoAdapters

AGP

PCI Trident 9682 1MB / 2MB EDO	29 / 39
AGP Trident 9875 4MB EDO w/TV output	59
PCI Diamond Stealth PRO 3-D 2MB / 4MB EDO	59 / 75
PCI Diamond Monster 3D 4MB	159
PCI Diamond Fire GL 1000 8MB	169
AGP Diamond Fire GL 1000 8MB	169
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AGP Diamond Viper330 4MB	145
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PCI ATI Xpert@Play 4MB / 8MB SGRAM	149 / 189
AGP ATI Xpert@Work 4MB / 8MB SGRAM	125 / 165
AGP ATI Xpert@Play 4MB / 8MB SGRAM	149 / 189
AGP ATI All-in-Wonder PRO 4MB / 8MB	225 / 265
ATI TV Tuner Card	129
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AGP STB Velocity-128 4MB	115

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Edimax NE-2000 ISA Combo	25
Edimax NE-2000 PCI Combo	29
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Intel EtherExpress 100Base-T PCI	69
3com Etherlink 3c590 ISA 10Base-T	55
3Com Etherlink 3c900XL 100Base-T PCI	69
3Com Etherlink 3c905XL Combo PCI	89

Multimedia

ISA Yamaha 32-bit Wave Table	29
PCI Ensoniq 32-bit Wave Table	49
ISA Sound Blaster-16 PnP	39
ISA Sound Blaster-32PnP	65
ISA Sound Blaster AWE-64PnP	69
ISA Sound Blaster AWE-64 Gold	169
24X CD-ROM, BTC (Phillips)EIDE	55
24X CD-ROM, Mitsumi EIDE	59
24X CD-ROM, Toshiba EIDE	65
32X CD-ROM, BTC (Phillips)EIDE	69
32X CD-ROM, Mitsumi EIDE	79
32X CD-ROM, Toshiba EIDE	79
Toshiba DVD Drive (Requires MPEG Decoder)	109
8X CD-ROM, Panasonic SCSI-2	75
32X CD-ROM, Toshiba SCSI-2	99
JVC CD-RW 2r/6w SCSI kit	339
Mitsumi CD-R 2r/8w EIDE	319
TEAC CD-R 4r/12w EIDE kit	399

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14" Active Matrix, 1024x768 Resolution

$1349

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Optiquest 17" V775 .26 (15.8" Viewable)	$ 469
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Optiquest 21" V115 .26 (20" Viewable)	$ 925
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Viewsonict 19" G790 .26 (18" Viewable)	$ 749
Viewsonict 21" P810 .25 (20" Viewable)	$ 1069
SONY 15" ES / GS -100 .25 dpi Trinitron	335/ 389
SONY 17" ES / GS -200 .25 dpi Trinitron	595/ 665

Chassis

SuperMicro 501A ATX 230W Tower	89
SuperMicro 601A AT 250W Tower	79
SuperMicro 701A ATX 250W Tower	99
SuperMicro 701S AT 300W Tower	119
SuperMicro 750A AT 300W Full Tower	199
SuperMicro 750S ATX 300W Full Tower	199
SuperMicro 801S AT Dual Redundant 300W Tower	699

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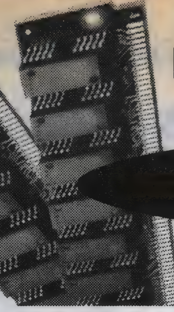

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8500, 9500 DIMMS			55	85	139	329
QUADRA 700,900, 950 (KT)		39	79		289	
QUADRA 800, 840 AV	18	25	38			
QUADRA 605, 610, 650	18	25	38			
CENTRIS 610, 650,660	19	29	38			
PERFORMA 450, 460, 466,467, 475,550,575,577,578	19	29	38			
MAC II, IICI, IICX, IIVI, IIVX, IIX, SE30	39	59	79			

AST	4M	8M	16M	32M	64M	128M
ADVENTURE 200,400 (AMD)			45	75		
PREMIA 4/33,336,50D, 66D			59	79		
ADVANTAGE! PLUS/PRO	18	29		45		
BRAVO LC 5166,5200 (SDM)I			45	75	189	379
BRAVO MS 5166,5200(SDM)			45	75	189	379
MANHATTAN D 6200			69	89	185	379
MANHATTAN PRESC PRO 6200			69	89	185	379
PREMIUM 486 (ALL)		CALL				

COMPAQ	4M	8M	16M	32M	64M	128M
DESKPRO 2000 5166MMX (SD)			45	75	189	379
DESKPRO 4000 5166MMX (SD)			45	75	189	379
DESKPRO 6000 6233,6300(SDE)				89	239	419
DESKPRO XL 6150/6200 (DIM)			69	89	185	379
DESKPRO 486 SERIES		CALL				
DESKPRO M SERIES EXP BOARD 0 MB					$119.00	
PROLINEA 486 SERIES	35	35	59	85		
PROSIGNIA 486/33, /66	35	35	59	85		
PRESARIO 400,600, 800	35	35	59	85		
PRESARIO CDS 720,724,92 20		35	59	85		
PRESARIO 8772 (SDRAM)			59	85		
PROLIANT 6000,6500, 7000 6200 NEW				CALL		
PROLIANT 1500,6/200 FLEX (DIM				89	185	379
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PROLIANT 486 SERIES	35	49	65			

DELL	4M	8M	16M	32M	64M	128M
DIMNSION XPS D 233/266/300 **(NEW)**				69	195	409
DIMNSION XPS M166/200			45	79		
XPS 133S,166S,200S,			45	79		
XPS P133V,P200V			45	79		
DIMENSION XPS H233,266			65	79	195	
DIMENSION XPS P100C,120C ED			49	69	129	
OPTIPLEX GXA PII 233,266,300**(SDE)**				89	269	469
OPTIPLX GXI,GX PRO200 (DIMM)			69	89	185	379
OPTIPLEX GL,GM,GMT, (ED)			45	69	129	
OPTIPLX GS,GXL,GXMT(ED)			45	69	129	
PRECISION 486	29	45	59			
PERFORMANCE	29	45	59			
POWEREDGE 2100,4100,6100			69	89	185	379
POWERDESKTOP	29	45	59			
POWERLINE WKST	29	45	59			
WORKSTATION 400 PII 266,300 NEW				89	185	379

Gateway2000	4M	8M	16M	32M	64M	128M
E-1000,E-3000,E-3100(SD)				69	195	409
E-5000-2266,2300 (SDE)				89	269	469
PROFESSNL P5/100, (DIMM)			45	79		
P5/120, P5/133, P5/166,P5/200			45	79		
PC FAMILY P5/200 (DIMM)			45	79		
DESTN D-5 P5/200 MMX (DIMM)			45	79		
DESTINATION D6-180,6-200			45	79		

HEWLETT PACKARD	8M	16M	32M	64M	128M
BRIO 8000,8100 SERIES (ED) NEW			69	129	
KAYAK XA PII 233,266,300**(NEW)**			69	195	409
KAYAK XU/XW PII 233,266,300**(SDE)**			89	269	469
PAVILLION 5010-7170 ED		45	69	129	
NETSERVER LH PLUS 5/133/166	69	89	185	379	
NETSERVER LH PRO PRO/200	69	89	185	379	
NETSRVR LX PRO/LXE 6/166,6/200	69	89	185	379	
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VECTRA VL4 5/150,5/166		45	69	129	
VECTRA XA 6/180, 6/200		45	69	129	

IBM	4M	8M	16M	32M	64M	128M
APTIVA 300,500&'M'	25	35	45			
APTIVA A SERIES ED			45	69		
APTIVA C21-C77		29	45	69		
APTIVA C3D,C3E,C8E,C9E(SDRM			45	79		
APTIVA S3C,S35,S8C,S9C,S9SDR			45	79		
APTIVA S64-S90 ED			45	69	129	
PC 300 GL (SDRM)			45	79		
PC 330 6576 SER (PENT)			45	69	129	
PC 700 SERIES PENTIUM			45	69	129	
PC 730 SERIES PENTIUM			45	69	129	
PC 750 SERIES PENTIUM			45	69	129	
PC 300 XL PENTIUM II (MDL6588)			69	89	185	379
PC SRVR 325 PRO 180/200 (8369			69	89	185	379
PC SERVER 330 PRO 200 (8640/69)			69	89	185	379
INTELLISTATION Z PRO 2D,3D			69	89	185	379
PREMIER PS/2 56,57,58		35	39	59		
MULTIMEDIA M77		35	59	89		
PS/1 ADVISOR/ESSENTIAL		35	59	89		
PS/1 INVESTOR/WILLOW		35	59	89		
PS/VALUEPOINT486 (ALL):		35	59	89		

MICRON	8M	16M	32M	64M	128M
MILLENNIA XKU PII 266,300(SDRM)			69	195	409
MILLENNIUM PRO 2 (DIMM)		69	89	185	379
VETIX EL 1000N,2000N (DIMM)		69	89	185	379
VETIX LXI(DIMM)		69	89	185	379
POWERDIGM XLI (DIMM)		69	89	185	379
POWERDIGM XSU (SDE)			89	269	469

NEC TECHNOLOGY	8M	16M	32M	64M	128M
DIRECTION SPL 233,266,300(SD)			69	195	409

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SDRAM 4X72 - 10ns 3.3v ECC 32MB	79
SDRAM 32X64 -10ns 3.3v ECC 256MB	729
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SDRAM 8X64 -10ns 3.3v 64MB	175
SDRAM 4X64 -10ns 3.3v 32MB	69

168 Pin Dimm

16X72-60 EDO-ECC 3.3V BF/UBF	(128MB)	369
8X72-60 EDO-ECC 3.3V BF/UBF	(64MB)	185
4X72-60 EDO-ECC 3.3V BF/UBF	(32MB)	95
2X72-60 EDO-ECC 3.3V BF/UBF	(16MB)	65
16X64-60 EDO 3.3V UBF	(128MB)	309
8X64-60 EDO 3.3V UBF	(64MB)	155
4X64-60 EDO 3.3V UBF	(32MB)	85
2X64-60 EDO 3.3V UBF	(16MB)	55

72-Pin EDO/Non Parity Simms

SIMM 32X32-60 EDO	(128MB)	375
SIMM 16X32-60 EDO H	(64MB)	185
SIMM 16X32-60 EDO L	(64MB)	169
SIMM 8X32-60 EDO	(32MB)	62
SIMM 4X32-60 EDO	(16MB)	29
SIMM 2X32-60 EDO	(8MB)	18
SIMM 1X32-60 EDO	(4MB)	12
FAST PAGE MODE (FPM) - NON-EDO:		
SIMM 32X32-60	(128MB)	379
SIMM 16X32-60 H	(64MB)	185
SIMM 8X32-60	(32MB)	67
SIMM 4X32-60	(16MB)	33
SIMM 2X32-60	(8MB)	18
SIMM 1X32-60	(4MB)	13

72-Pin Parity Simms

TRUE PARITY:		
SIMM 32X36-60	(128MB)	405
SIMM 16X36-60 H	(64MB)	219
SIMM 16X36-60 L	(64MB)	185
SIMM 8X36-60	(32MB)	75
▶ SIMM 8X36-70	(32MB)	72
SIMM 4X36-60	(16MB)	45
▶ SIMM 4X36-70	(16MB)	44
SIMM 2X36-60	(8MB)	35
SIMM 2X36-70	(8MB)	33
SIMM 2X36-80	(8MB)	31
SIMM 1X36-60	(4MB)	19
SIMM 1X36-70	(4MB)	17

H=High Density L=Low Density

30-Pin Simms

▶ SIMM 16X9-60 (9-CHIP)	(16MB)	70
SIMM 16X9-70 (9-CHIP)	(16MB)	69
SIMM 4X9-60 (9-CHIP)	(4MB)	18
SIMM 4X9-80 (9-CHIP)	(4MB)	17
SIMM 1X9-60 (9-CHIP)	(1MB)	10
SIMM 1X9-70 (9-CHIP)	(1MB)	9
SIMM 1X3-60 (9-CHIP)	(1MB)	8
NON PARITY:		
SIMM 16X8-60 (9-CHIP)	(16MB)	68
SIMM 16X8-70 (9-CHIP)	(16MB)	65
SIMM 4X8-60 (9-CHIP)	(4MB)	16
SIMM 1X8-60 (9-CHIP)	(1MB)	9
SIMM 1X8-70 (9-CHIP)	(1MB)	8

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ATI 3D PRO TURBO	89	179			
ATI XCLAIM 3D (SGRAM)		179			
ATI 3D XPRESSION (SDRAM)	79				
MATROX MILLENIUM WRAM		139	189		
MATROX MILLENIUM II				CALL	CALL
MATROX MYSTIQUE (SGRAM)	59				

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EPIC 1400 SERIES NOTEBOOK (NEW)		89	149	229 (24MB)	
520/C, 540/C	49	79	115	219	

ACER	4M	8M	16M	32M	64M
750,750C	39	75	109		
730,735C,760C,760CX,780CX	39	69			
782,784,786,787,760I	29	39	75		
NUOVO 971,972,970DX,970MMX		49	65	115	
PRO 950,,954,955,956,957,958,959		55	75	139	
LIGHT 350P ,356,358,359,361		55	75	139	
LIGHT MULTIMED 382,383,384		55	75	139	

AST	4M	8M	16M	32M	64M
POWEREXEC486SL/33, 425L	45		95		
425L SPECIAL EDITION	45		95		
BRAVO NB/EXPLORER	35		75		
ADVANTAGE EXPLORER 212	55	75			
ASCENTIA A 41, A42,A70 MMX		49	65	119	
ASCENTIA J SERIES (KIT)		55	75	139	
ASCENTIA P SERIES (NEW)		59	89	169	
ASCENTIA 900, 910N	45	65	95		
ASCENTIA 950N		65	95		
ASCENTIA 800, 810/N	39	69	95		

AT&T	4M	8M	16M	32M	64M
SAFARI 3151/3181	49	65	95		
GLOBALYST 130	29	39	75		

AUSTIN NOTEBOOK	4M	8M	16M	32M	64M
BUSINESS AUDIO XL DX4		59	149		
DX4/DX2/SX2/SX	55		179		
VISTA	49	75	129		

Canon	4M	8M	16M	32M	64M
NOTEJET 486C (BN100)	39	69			
NOTEJET 486 (BN22)	49	69			
NOTEJET II (BN32)	49	69			
NOTEJET III/III CX	29	39	75		
IINNOVABOOK 1100T		59	75	139	
IINNOVABOOK 10C SUB	49		125		
IINNOVABOOK 150C, 175C	49		125		
IINNOVABOOK 350,360,475	29	39	75		
IINNOVABOOK 480, 490		39	75		
IINNOVA 200LS	49	75	125		
IINNOVA 486NX	45	69			

COMPAQ SPECIAL

PRESARIO 1208,1210,1610,1620,1680S115

COMPAQ	4M	8M	16M	32M	64M
ARMADA 1100,1100T,1120,1125		49	79	139	209
ARMADA 1130,1130T		49	79	139	
ARMADA 1510DM,1520DM,1550MT		49	79	139	209
ARMADA 7710,7730,7750		49	79	139	209
ARMADA 4100		49	79	139	215
CONCERTO 425/433	45	65	95		
CONTURA 4/25,C,CX	39	65	95		
CONTURA 400C,410C,420,430C		45	69	95 (185 24MG)	
CONTURA AERO 4/33C	39	69	105		
LTE ELITE 4/25/C, 4/75/C	45	65	95		
LTE 5000,5100,5200,5300,540		59	95	119	21 9
PRESARIO 1010, 1020, 1030,1040		49	72	119	
PRESARIO 1060,1070,1080		49	72	119	
PRESARIO 1210, 1610,1680			75	115	245

CTX EZ BOOK	4M	8M	16M	32M	64M
CTX EZ500T	29	39	75		

DEC PC	4M	8M	16M	32M	64M
425SE/433 SE COLOR	49		95		
425SL, 433SLC PREMIUM	49		95		
HI-NOTE/HI-NOTE ULTRAI	39	55	75		
HI-NOTE VP 520/525/535/545		49	79	139	209
HI-NOTE VP CSS,LSS 575/5100/5120		49	79	139	199

DELL	4M	8M	16M	32M	64M
INSPIRON 3000 M200, M233(NEW)			75	125	245
LATITUDE LM P100SD,P133S	49	79	139		
LATITUDE LX475D,4100D/T	39	49	79		
LATITUDE 433/C, CX, 425	45		95		
LATITUDE XP 4100CX,450C/CX	29	42	75		
LATITUDE 433M, MX, MC,	39	69	95		

EVEREX	8M	16M	32M	64M
STEPNOTE 5	49	79	139	
STEPNOTE MMX	49	79	139	199

EPSON	4M	8M	16M	32M	64M
ACTION NOTE 500C	55				
ACTION NOTE 650/660C	45	69	105		
ACTION NOTE 700	55		129		
ACTION NOTE 890CX, 890C	35	49	85		
ACTION NOTE 895C, 910	35	49	85		

FUJITSU	4M	8M	16M	32M	64M
LIFEBOOK 400,500,600 SERIES		49	79	139	
MILAN,MONTECARLO,MONTEGO		49	79	139	209

Gateway2000	4M	8M	16M	32M	64M
COLORBOOK	49		149		
HANDBOOK	29		75		
LIBERTY	29	45	75		
NOMAD/NOMAD N	75		345		
SOLO S90,S120,V75 (NEW)		59	79	149	
SOLO 2100, 2200 (NEW)		59	105	169	
SOLO 2300 (NEW)			75	129	245
SOLO 9100 SERIES (NEW)			75	129	245

HEWLETT PACKARD	4M	8M	16M	32M	64M
OMNIBOOK 530, 600/C	49	69	149 (530 ONLY)		
OMNIBOOK 600CT 4/75	45	69			
OMNIBOOK 800C,800		69	105	195	CALL
OMNIBOOK 2000		55	89	145	285
OMNIBOOK 3000CTX			CALL	CALL	
OMNIBOOK 4000 C/CT	49	69	109		
OMNIBOOK 5000,5500 CT,CTS		69	89	145	
OMNIBOOK 5700TX (MMX)		69	89	145	285

HITACHI	8M	16M	32M	64M
C-SERIES NOTEBOOK	49	79	119	
E-SERIES NOTEBOOK	55	85	149	
M-SERIES NOTEBOOK	55	95	169	
M-X MMX SERIES NOTEBOOK	59	89	179	
VISIONBOOK PLUS 4140,4150,4360	49	79	139	209
VISIONBOOK PRO 7340,7360,7560	49	79	139	209

IBM SPECIAL

THINKPAD 365XD, 560, 760ELD, 760XL, 765D - 32MB S119

IBM	4M	8M	16M	32M	64M
CL57LSX	59	79			
PS/NOTE 2618	55	75	125		
PS/NOTE 182, N82, L40SX	55	75			
THINKPAD 340	45	75			
THINKPAD 350, 350C	45	75	105		
THINKPAD 355, 355C.360C/CS	45	75	119		
THINKPAD 365C,CS,CD,E,ED	29		79		
THINKPAD 365 X,380,385D		49	75	125	
THINKPAD 510/CS,(500 8MG MAX)	45	70	135		
THINKPAD 560 (NEW)		49	75	119	
THINKPAD 560E		49	75	119	209
THINKPAD 700/C, 720/C	49	79			
THINKPAD 701 BUTTERFLY	29	45	75		
THINKPAD 750/C/CS/P	45	69	129	225	
THINKPAD 755CS DX2/4	55	69	129	225	
THINKPAD 760C (NEW)		65	95	149	
THINKPAD 760 E,EL,ELD (NEW)		49	75	119	209

MICRON	4M	8M	16M	32M	64M
MILLENNIUM TRANSPORT		59	75	139	
MILLENIUM TRANSPORT XPE			79	119	

MIDWEST MICRO	4M	8M	16M
ELITE SNDBOOK 486/486 I I	45	69	105
ELITE SNDBOOK PLUS (PENT)	45	69	109

NEC	4M	8M	16M	32M	64M
VERSA E/M/V/P		55	79	155	
VERSA S, 2000, 2200C	29	42	75		
VERSA 2400,2405,2435		49	75		
VERSA 2600		49	79	139	209
VERSA 4000		65	79	155	
VERSA 6000H,6030H		69	95	185	
VERSA 6050MH,MHX P150 MMX		69	95	185	229
VERSA 6200MX P166 MMX		49	79	139	209

PACKARD BELL	2M	8M
STATESMAN/STATESMAN +	39	75

SAMSUNG	4M	8M	16M	32M	64M
S3945T/SENS 700/800	59	75	119		
SENS 500		49	79	139	209
SENS 810		75	105	195	

SHARP	4M	8M	16M	32M	64M
3010,3050	29	42	75		
3020,3060 PENTIUM	29	42	75		
3030, 3040, 3070		59	89	145	
7700/7750/8150,8650,8660	45		95		
8700,8800,8900	45	69	105		
9000/9030		55	89	139	
9020/9050		55	89	139	
9040/9070		59	79	139	
9080		59	79	139	
WIDENOTE		49	79	139	

SONY	16M	32M	64M
VAIO PCG-705C,707C,717C,719C	75	115	239

TEXAS INSTRUMENTS	4M	8M	16M	32M	64M
TI 4000E, 4000M	79		279		
TI 5000,5100,5200,5300		79	95		
TI 6020,6030,6050,6160		49	79	139	
TI EXTENSA 455 SERIES (NEW)	29	45	75		
TI EXTENSA 510/515/550/560/575		59	79	139	
TI EXTENSA 600,650,660SERIES		49	79	139	

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710CD/720CDS/730/740	49	65	109		249	509
PROTEGE 650 CT,660 CDT	49	69	119		229	
SATELLITE 225,440,460	49	69	119	169		
TECRA 500/550/650/660	49	69	119	169		449
TECRA T700CS/CT (SYNC)	75	105	189			
T1900,1900CT,1950,1960	65	95				
4500/4700/4800/4900	65	95	189			
T6400/6600	65	95	189			
T2100, T2150CDS/CDT	65	79		119 (24MG)		
PROTEGE 2400/3400/3600-		42	75			

TWINHEAD	4M	8M	16M	32M	64M
SLIMNOTE "E" 486DX	49		95		
SLIMNOTE 5	49	75	95		
SLIMNOTE 6	49	75	95		
SLIMNOTE 8		75	95	145	

WINBOOK	4M	8M	16M	32M	64M
WINBOOK XP			79	145	
WINBOOK XP 5 (NEW)				145	
WINBOOK FX (NEW)		59	89	149	

ZENITH	4M	8M	16M	32M	64M
Z-STAR 433VL		75			
Z-STAR EX	39		75		
Z-NOTE FLEX/ES/EX/GT	35	55	75		
Z-NOTE MX	49		95		
Z-NOTE 6000		69	95	185	
Z-NOTE 6200		49	79	139	209

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SRAM CARDS		FLASH CARDS	(ATA)	/COMPACT
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128K	55	4MB	$89	$85
256K	65	8MB	119	129
512K	95	12MB	149	169
1MB	105	16MB	175	149
2MB	159	20MB	209	339
4MB	309	40MB	359	

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APPLE, CASINO ZOOMER, CHINNON, HP OMNIGO, KODAK DC'S,NIKON E2, SONY MAGILINK, ETC.

CPU UPGRADES

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Pentium 166 MHz	$109
Pentium 200 MHz	$169
Pentium 166 MHz MMX	$115
Pentium 200 MHz MMX	$135
Pentium 233 MHz MMX	$214
Pentium II 233 MHz w/512 Cache	299
Pentium II 266 MHz w/512 Cache	405
Pentium II 300 MHz w/512 Cache	585
Pentium II 333 MHz w/512 Cache	845
AMD	
K6-166MHz MMX	$122
K6-200MHz MMX	$142
K6-233MHz MMX	$175

Printer Memory

BROTHER	1MB	2MB	3MB	4MB
HL-8D/8E/8V	65	75		115
HL-10V/10DV/10PS		69		99
HL-4/4PS/4V/4VE		75		115
HL-6/6T/6V		65		99
HL-630/631/641/645	43		55(1.5MB)	
HL-720/730			45(1.5MB)	
HL-660/960/1260		42(4MB)		65 (8MB)
LASER/FAX MFC 3900ML	39		55(1.5MB)	
4000ML/4500ML/5000ML LASER UPGRADE/CALL FOR MEM/FAX SIDE				
FAX 4550/6550/7550(NEW)	65	85		

Canon	1MB	2MB	3MB	4MB
LBP 430/860/1260				39
LBP 4SX		75		115
LBP 811/B/T		45		65
LBP-8SX		79		115
LBP-4/LITE PLUS	95	139		

EPSON ACTION LASER	1MB	2MB	4MB	5MB
1500, 1000		59		
5000, 5200		55	95	
ACTION LASER II		69	89	105
EPL 6000		85	115	
EPL 7000		69		

EPSON	4MB	8MB	16MB	32MB
1100(4MB ONLY)/1600	39	55	69	95

HEWLETT PACKARD	2MB	4MB	8MB	16MB
HP 4000/4000N NEW				65
HP 4, 4M, 4SI	29	49	59	
HP 4	(postscript 249)			
HP 4P, 4MP, HP4V,5M,5N,5P,5SI	29	39	49	65
HP4L, ML (1MEG ONLY)		$39		
HP 5L,5L-FS	35	43	79	
HP550,C, 560,C (256K ONLY)		$29		
HPII/IID	45	65		
HPIII,IIIP, IIP	45	65		
PAINTJET XL300		65	85	

IBM	1MB	2MB	3.5MB	4MB
4019		69	95	
4029/4037		39		55
4039/4079				45

LEXMARK	4MB	8MB	16MB	32MB
OPTRAL/LX/LXI/N/R/RX	39	49	65	89
WIN WRITER 200, 400, 600	69			
VALUEWRITER	69			

OKIDATA	1MB	2MB	4MB
OKI 400		52	
OKI 400E/410E		69	109
OKI 600E/610E (NEW)		65	85 (5MG)149 (17MG)
OKI 810/830/840/850		79	CALL
OKI 810E (NEW)			79

Panasonic	2MB	4MB	8MB
KX 4410/4430	55	79	
KX 4420/4450I	65	99	
KX 4400/5400/4401	49	85	
KX 4440/5410	69	109	
KX-P 4450		85 (1MB)	
SP100	49	85	
KX-6500 (NEW)		55	

SHARP	1MB	1.5MB	2MB	4MB
JX9500/E/H/9700/H		129	159	
JX9400/9600/9660/9700E			65	95

TEXAS INSTRUMENTS	1MB	2MB	3MB	4MB
MICROLASER SERIES	39	78	117	156
MICROLASER TURBO				89
MICROWRITER SERIES	45	75		
ML PWRPRO/12,ML PRO8,ML600	55 (4MB)			95 (8MB)

Peripherals

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MAXTOR DRIVES

Maxtor Diamondmax 82560D3	2.5GB	10ms	$160
Maxtor Diamondmax 84320D5	4.3GB	10ms	$204
Maxtor Diamondmax 85250D6	5.2GB	10ms	$235
Maxtor Diamondmax 85120A	5.1GB	10ms	$229
Maxtor Diamondmax 87000D	7.0GB	10ms	$335
Maxtor Diamondmax 88400D8	8.4GB	10ms	$349

QUANTUM DRIVES

Quantum Fireball ST32160A	2.1GB	10ms	$149
Quantum Fireball ST3240A	3.2GB	10ms	$261
Quantum Bigfoot CY54335A	4.3GB	14ms	$169
Quantum Fireball ST4320A	4.3GB	10ms	$205
Quantum SE8400A	8.4GB	9.5ms	$369

SEAGATE DRIVES

Seagate ST32122A	2.1GB	12ms	$135
Seagate ST52520A	2.5GB	11ms	$185

WESTERN DIGITAL DRIVES

Western Digital AC22000	2.0GB	12ms	$135
Western Digital AC22500	2.5GB	12ms	$155
Western Digital AC33200	3.2GB	12ms	$179
Western Digital AC34300	4.3GB	11ms	$225
Western Digital AC35100	5.1GB	11ms	$219
Western Digital AC36400	6.4GB	9.5ms	$275

SCSI HARD DRIVES

QUANTUM DRIVES

Quantum AL34550S	U/S3	4.5GB	8ms	$485
Quantum Fireball ST4320S	U/S3	4.3GB	10ms	$305
Quantum AtlasII VK34550S	U/S3	4.5GB	8ms	$489
Quantum AL39100S	U/S3	9.1GB	8ms	$815

SEAGATE DRIVES

Seagate Barracuda ST34572N	U/S3	4.5GB	8/9ms	$556
Seagate Barracuda ST19171N	U/S3	9.1GB	8/9ms	$850

WESTERN DIGITAL DRIVES

Western Digital E4360-3	U/S3	4.3GB	8ms	$485

WIDE SCSI HARD DRIVES

QUANTUM DRIVES

Quantum Vikingl VK34550SW	UW/S3	4.5GB	8ms	$395
Quantum Atlas AL34550SW	UW/S3	4.5GB	8ms	$343
Quantum Atlas AL39100SW	UW/S3	9.1GB	8ms	$825

SEAGATE DRIVES

Seagate Barracuda ST34572W	UW/S3	4.5GB	8/9ms	$590
Seagate Cheetah ST34501W	UW/S3	4.5GB	7/8ms	$695
Seagate BarracudaST19171W	UW/S3	9.1GB	8ms	$805
Seagate Cheetah ST19101W	UW/S3	9.1GB	8ms	$1065

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Western Digital E4360-7	UW/S3	4.3GB	8ms	$519

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300dpi TRACKBALL

- Compatible with Microsoft & Mouse System Mode,
- Keylock switch for drag latching option

JTBS2	with Track Ball	**19.95**
JTBS3	with Removable Ball	**14.95**

QUASAR CRYSTAL TRACKBALL

Globe glows with the hue of mahogany or emerald when clicked. Adaptable for right or left handed users.

JTBS4 Crystal Trackball **24.95** **18.90/5+**

CORDLESS MOUSE

- Compatible with IBM PC
- Resolution: up to 800dpi
- Built-in rechargeable batteries
- 90 degree view angle
- 3 button cordless mouse

OU106B **34.95**

SERIAL MOUSE

- Opto–Mechanical, microswitch design for the best performance
- 260–2600dpi.resolution

OU101 **$3.99**

ROUND MOUSE

- 400–4000dpi resolution
- 3 buttons in attractive circular design with green ball

OU108 Round Mouse **6.99**

PREMIUM MOUSE

- 300dpi resolution & up
- Microsoft and PC compatible

OU105 **6.95** **5.95/12+**

PREMIUM MOUSE PACKAGE

- Includes: Serial mouse, pad and pocket

OU102 Deluxe Mouse Package **7.99**

ERGONOMIC 3-BUTTON SERIAL MOUSE

- DOS, Windows, and OS/2 compatible.
- Opto–mechanical with resolution from 400–4000dpi.

JMSS6 Ergonomic Mouse **8.95**

SERIAL MOUSE

DB–9 female connector, opto–mechanical with resolution from 400–4000 dpi.

JMSS8 Serial Mouse **5.95**

PS/2 MOUSE ADAPTER

- Convert Serial to PS/2, combo mouse only

CAD0906FF DB9F/M to DB6F/M **1.69**

- Convert PS/2 to Serial, combo mouse only

AD0906MM DB9M to DB6M **1.99**

BUS MOUSE w/ CARD

Out of com ports? Use our bus mouse and SAVE your com ports.

JMSS7 Bus Mouse **17.95**

SPEAKERS

40W SPEAKERS

The perfect speakers for your system! May be mounted on your monitor.

TJMSPE40 **9.95**

All speakers are magnetically shielded

2-WATT SPEAKERS

- Measures: 3.75"W x 3"D x 4.5"H
- Input power: 2 watts/each

SPJ055 2W **$3.99/pair**

60W Hi-Fi SPEAKERS

- PMPO 60 watts; 2–channel stereo amplifier; Measures: 2" x 3"
- Includes volume, control, AC adapter

MSPE691 60W Speakers **14.95/pair**

EZ SPEAKER MOUNTING KIT

Mount speaker on monitor, wall, or any flat surface. Ideal for MSPE691, 60W speakers

XSH01 Speaker Mounting Kit **2.95**

24-WATT SPEAKERS

- 2" x 3" woofer with volume control
- Output power: 24 watts PMPO
- Requires 9 volt DC adapter or battery.

SPJ118 24W Speakers **12.95/pair**

112-WATT SPEAKERS

- Measures: 6"W x 6"D x 10.5"H
- Max. output: 112 W PMPO
- Volume, bass & treble controls
- RCA type & 1/8" mini plugs

SPJ157 **39.95/pair**

VOYAGER 240W SURROUND SUBWOOFER SYSTEM

- Omni–directional, deep bass
- Speakers: 4.5" x 9.75" x 8"
- Woofer: 6.5" x 10" x 8.5"

MSPSW240	240W Subwoofer & Speaker	**54.95**
MSPSS170	170W Speakers Only	**29.95**

80 WATT SPEAKERS

Best Price

- Measures: 5.5"W x 6.5"D x 5"H
- 4" woofer & 1.25" tweeters

SPJ147 80 Watt **27.95** **24.95/6+**

DELUXE Hi-Fi HEADPHONES

HP924
- 40 mm super thin diaphragm
- Gold Plated Plugs, 9' long cord
- Sensitivity: 102 dB, Freq. 20–20,000 Hz

HP924 Deluxe **14.90**

LIGHTWEIGHT STEREO HEADPHONES

- 4' long cord, Freq. Range: 20–18,000 Hz

MHPF002 Lightweight Headphones **1.90**

HEADSET w/BOOM MICROPHONE

Stereo headset with closed vinyl ear cushion.

MHPHP330	Standard	**9.95**
MSPM7602	Deluxe	**24.95**

CLIP-ON MICROPHONE with MOUNTING HOLDER

Creates a hands-free environment.

MSPM9108 Clip–on Microphone **3.95**

CONDENSER MICROPHONE

This microphone has a 3.5mm stereo jack. Operating range 20–20,000Hz

MMP2GX **$5.99** **$4.99/10+**

REMOVABLE HDD RACK

Make your hard drive removable. Great for data exchange, data back–up and sharing. Easy replacement among multiple PCs, home PCs and office workstations. High quality with a complete kit to mount a 3.5" hard drive. Front handle makes it easy to transport, just plug and go. Portable and secure. Ideal for RAID Systems and servers. Hot Swap.

AS LOW AS $14.25 BUY 5+

NEW REDUCED PRICES

IDE			
XMKXRI	Inner Tray *Only*	**11.99**	**10.50/5+**
XMKMRI2	Mechanical Lock	**15.95**	**14.25/5+**
XMKERI	Electronic Lock	**20.95**	**18.50/5+**
XMKERIF	Electronic Lock, Fan	**22.00**	**19.95/5+**
SCSI			
XMKXRS	Inner Tray *Only*	**12.99**	**11.50/5+**
XMKMRS2	Mechanical Lock	**16.95**	**15.25/5+**
XMKERS	Electronic Lock	**21.95**	**19.50/5+**
For RAID and servers			
XMKERSF	Electronic Lock, Fan, aluminum Tray	**29.95**	**29.00/5+**
Wide SCSI			
XMKERWSF	Electronic Lock, Fan, aluminum Tray	**34.95**	**32.50/5+**
LS120, MO, ATAPI Device			
XMKERLS	Electronic Lock, plastic Tray	**22.00**	**19.95/5+**

- **NEW Wide SCSI w/ ID display**

XMKERWFDF	Electronic Lock, Fan, aluminum Tray	**44.95**	**42.00/5+**
XMKERWD2F	Electronic Lock, 2 Fans, plastic Tray	**34.95**	**32.50/5+**

In order to better serve you, we have added a survey to our Web Site. If you complete this survey and return it to us, we will enter a credit in your account for $10.00 off your next purchase of $50.00 or more from Computer Gate International. Go to: **www.computergate.com**

AMAZINGLY LOW PRICES ON NAME BRAND MBs AND HDDs AT www.COMPUTERGATE.com

MEDIA STORAGE

CD JEWEL BOX

- Protect your loose CD ROMs with these durable plastic cases. *Five Per Pack*

CDJEWEL	CD Jewel Box	**2.45**

CD CADDY

- Compatible with all standard caddy CD ROM Drives

CDCADDY	CD Caddy	**3.49**

CD WALLETS

XDBC10WB	10pcs	**$3.49**
XDBC20WB	20pcs	**$5.95**

HIGH–TECH CD CASE

- Stores 40 CDs; Handle locks

XDBC040B	**19.90**

CD STORAGE RACK 10pcs.

Can be assembled up to 10 CDs. stackable vertically or horizontally

XDBC10STW	White	**$5.95**
XDBC10ST	Black	

DISKETTE CABINETS

3.5" CABINET

- Holds 100pcs, stackable

DC3100	3.5" Cabinet	**9.90**

3.5"& 5.25" DISKETTE HOLDERS

DB3010	3.5" Holds 10	**.79**
DB3040	3.5" Holds 50	**2.90**
DB5050	5.25" Holds 50	**2.99**

- Complete with lock & (2) Keys

DB3080	3.5" Holds 100	**3.90**
DB3120	3.5" Holds 120	**6.50**

3.5" HOLDS 50 pcs. & 5.25" HOLDS 70 pcs.

DBX350	**5.99**

DISKETTES & LABELS

Lots of 50 only

DK350HDF	3.5" 1.44MB; Formatted	**.35**
DK350HD	3.5" 1.44MB; Premium	**.59**
DL350	Label for 3.5"Diskettes	**.05**

CLEANING ACCESSORIES

DUST COVERS

- Anti-static, Dust and water resistant

XDCM15	15" monitor, 18" x 18" x 15.375"	**3.49**
XDCM20	17-21" monitor, 22" x 24" x 19.5"	**3.95**
XDCLAS	Laser printer, 20" x 28" x 10"	**3.49**
VDKB	Keyboard, 21" x 8.5" 1.5"	**1.19**
VDAT	Computer w/keyboard cover 2 pcs.	**2.89**
VDT1	Mini Tower: 8"W x 20"D x 14"H.	**2.39**

PERFECT DUSTER

$4.75

Great for cleaning those hard to reach places. Disposable version with trigger dispenser valve/extension tube

XCKAS01	8oz. Duster	**4.50**
XCKAS02	12oz. Duster	**6.95**
XCKAS03	8oz. High Velocity Refill	**4.49**
XCKAS04	8oz. High Velocity Sys.	**12.95**

CD LASER CLEANING KIT

XCKCD3	**6.45**

CLEANING KITS

Cleaning diskette & fluid for single/double sided drives

VK03	3.5" drives	**1.19**
VK05	5.25" drives	**1.19**

VK05 VK03

MINI SUPER VACUUM

- Includes: Vacuum attachments, cloth dust bag & lint free wipes
- Requires AA batteries(not included)

VK07	Mini Vacuum	**4.99**

VK07

FILTERS

MONITOR FILTER

- Reduce glare and reflection
- Enhances sharpness/contrast

MF14G	for 15", Color	**4.90**
XMF17G	for 17", Color	**6.95**
XMF159	for 14"-15", Color, AOA	**39.95**
XMF179	for 16"-17", Color, AOA	**74.95**
XMF219	for 19"-21", Color, AOA	**89.95**

AOA: American Optometrist Association Approved

VISION CAM

Meet face to face with your friends, business associates and family—anywhere in the world Video conferencing uses existing phone line

MVCSIVP03	**89.95**

WIRELESS DATA TRANSFER DEVICE

Share, copy, move, files and directories on PCs, notebooks or digital cameras; Self powered by serial port (RS232); works with WIN95 and 3.1x

DIDTR210	**44.95**	**39.95/2+**

INFRARED ADAPTER

Fast Infrared printer adapter allows PCs and Notebooks to share one printer. Supports Bi–directional and 4M bit/s speed

DIDIR620	**NEW**	**110.00**

See our Web Site for detailed specs

TOOL KITS

PREMIUM 12 PIECE TOOL KITS

TK110	with Parts Tube	**6.99**	
TK113	IC Insertion Tool	**6.99**	**5.99/12+**

20 PIECE DELUXE TOOL KITS

- All the tools you need for your PC.

TK220	20 piece	**19.50**

HOBBY TOOL KIT

Set Includes:

- Phillips: #0, 1; Slotted ScrewDriver: #1, 4, 2.0, 2.4, 3.0
- Socket Set: 5, 6, 8, 10mm 10pc. bit pack
- 4" nose pliers, 4" side cutter, Tweezers
- Handle, Extension bar,

TK500	Hobby Tool Kit	**14.90**

PC MOTHERBOARD ASSEMBLE KIT

CFLSCW1	**$1.25**

MINI SCREWDRIVER TOOL KIT

XTK06S	Mini 6pc. Screwdriver Set	**95¢**

8x8 DIE CRIMP TOOL

TK8C	Die Crimp for RJ45	**10.99**

MONITOR ITEMS

MONITOR ARM

- 11 1/4" x 11 1/4" platform
- 360 rotation, arm extends 14 1/2"
- clamps to desktop
- Holds up to 55 lbs.
- Includes keyboard holder

MM02	**23.95**	**$19.95/3+**

- Same design as MM02; Larger platform, more stability, supports up to 57 lbs & adjustable KB tray angle; platform 13 3/4" x 13 3/4"

XMA05	**$34.95**

HEAVY DUTY MONITOR ARM

- Holds up to 70lbs
- Holds a 20" monitor
- Monitor arm extends up to 27"
- 240° swiveling platform and base clamp that rotates 180°; Weighs 26lbs

MM06	**89.95**	**$84.95/2+**

ECONOMY MONITOR ARM

- 360 degree rotation
- Holds 17" monitor

XMA06	~~19.95~~	**$16.95**

DESK MOUNT EXTENSION for MM06 & XMA05

- Dimension: 26" x 1.5" x 3/4"

XMAK1	Desk Mount	**7.95**

VGA or SVGA MONITOR CABLE

- Connects VGA analog monitors with VGA display
- For VGA monitor to CPU or extension
- DBH15 Male to DBH15 Male

ASSEMBLED			MOLDED	
CMV15MM-6	6'	**1.99**	**CMMV15MM6**	**2.39**
CMV15MM10	10'	**2.49**	**CMMV15MM10**	**2.99**
CMV15MM15	15'	**3.99**	**CMMV15MM15**	**4.49**

- DBH15 Male to DBH15 Female

CMV1515MF	6'	**1.99**	**CMMV15MF**	**2.39**
CMV1515MF2	12'	**2.69**	**CMMV15MF12**	**2.99**

MONITOR CABLES

- DB9 to DBH15 **MOLDED** (Male to Male)

CMMV09MS	6'	for SONY	**2.49**
CMMV0915MM	6'	for NEC	**3.00**

RGB MONITOR CABLE

HDD 15M– 5BNCM 6'

CVG15MN6N5	**15.95**

DB9 MONO MONITOR/RS232 MOUSE EXTENSION CABLE

- For monochrome, RGB, EGA, & Multisync monitors
- DB9 Male/Female, Male/Male, Female/Female

ASSEMBLED			MOLDED	
CM0909MF-3	3'	**1.29**	**CMM0909MF3**	**1.69**
CM0909MF-6	6'	**1.49**	**CMM0909MF6**	**1.89**
CM0909MF12	12'	**1.89**	**CMM0909MF2**	**2.49**
CM0909MF25	25'	**3.49**	**CMM0909MF5**	**3.99**
CM0909MM-6	6'	**1.49**	**CMM0909MM6**	**1.89**
CM0909FF-6	6'	**1.49**		

PS/2 MOUSE CABLES

PS/2 MOUSE CABLES

- Use as PS/2 mouse and keyboard extension

CKB6MM06	6'	Mini Din6M to Mini Din6M	**1.69**
CK0606FM	6'	Mini Din6F to Mini Din6M	**1.69**

PS/2 MOUSE CABLE ADAPTER

NEW PRODUCT

- Use with any motherboard
- Assemble to fit your needs

CIJM658F	6"	**1.25**

UPS SYSTEMS

- Protects against surges, spikes and blackouts
- Built–in interface for Novell, Unix • Back up time: 3 min (full load)
- Transfer time: <=3ms

PUP3002	300VA, 220V	**99.00**	**95.00/2+**
PUP5502	500VA, 220V	**165.00**	**159.00/2+**
PUP12502	1250VA, 220V	**385.00**	**379.00/2+**

Optional: UPS/LAN Monitor Interface Card

UPCARD	Monitor Interface Card	**19.99**

- With Window95 interface software & serial cable

PUP0420U	420VA, 110V	**89.00**	**84.95/2+**
PUP0650U	650VA, 110V	**129.00**	**119.00/2+**
PUP1000U	1000VA, 110V	**299.00**	**249.00/2+**
PUP1400U	1400VA, 110V	**349.00**	**335.00/2+**

KEYBOARDS

All keyboards include a 6' cable with Din5 connectors unless otherwise noted

104 KEY MITSUMI KEYBOARDS

NEW PRODUCT

KMMZW104S	DIN 5 Port	**11.99**
KMMZW104P	PS/2 Port	**11.99**

PROGRAMMABLE WIN95 KEYBOARD

Program "Hot Key" to fit your needs. A user friendly keyboard

- Includes microphone

KEZ1000	**27.95**

ERGONOMIC KEYBOARD w/ WRIST PAD

- 104 key ergonomic keyboard

KCC7903W	with Wrist Pad	**29.95**

WINDOWS 95 SPACE SAVER KEYBOARD

- 104 keys for Windows 95; Membrane, space saver

KCC5911	Win 95 Space Saver	**17.95**

WINDOWS 95 KEYBOARD

- 104 keys for Windows 95; Membrane

KCC2923	Win 95 Keyboard	**13.95**

MECHANICAL KEYBOARD

- 104 key mechanical keyboard

KCC5981	Mechanical	**29.90**	**27.95/2+**

KB ACCESSORIES

UNDER CARRIAGE DRAWER

- Mouse tray can be installed on left or right of keyboard; ball bearing movement
- Equipped with wrist rest to protect hands
- Hold standard & MS size keyboards

XKDC55M	**NEW**	**15.49**	**13.95/3+**

KEYBOARD DRAWER

- Ball bearing "easy glide" slides lock
- Holds keyboards up to 20.25" x 9.5" x 2.25"

KDMT	Drawer	**17.95**	**15.95/6+**

UNDER–TABLE KEYBOARD DRAWER

- Mounts easily below desktop
- Ball bearing "easy glide" slides lock

KDMU

KDMU	Best Buy	**11.49**	**9.95/6+**

OVERSIZE KEY BOARD DRAWER

- Ideal for MS keyboard
- Holds keyboard up to 22"x10"

XKDMU2

XKDMU2	**14.95**

- Drawer clips on under the table
- Measures: 20.9"W x 10"D x 3"H

KDMC

KDMC	**19.50**	**17.95/5+**

KEYBOARD ARM w/ TRAY

- Tray designed to hold MS keyboard and mouse

XKDMA05M	**NEW**	**39.95**

KEYBOARD ARM

- Adjustable heavy-duty keyboard holder
- Slides in and out,up and down, tilts and swivels; Measures: 6" x 16"

XKDARM	**43.95**

GEL WRIST REST

Ergonomiclly designed to redistribute pressure points; Use with full size, MS natural & Win 95 keyboards

XKWF91737	Gel Wrist Rest	**12.99**	**11.99/4+**

LATEX FORM WRIST REST

NEW PRODUCT

Made of soft PU foam. Dark Blue in color

XKWK005	**NEW**	**4.49**

KB WRIST REST

KBWR	Blue	**1.99**
XKBWRG	Gray	

KEYBOARD EXTENSIONS

- Ideal for floor-mounted PCs
- Designed for IBM style keyboard cables

CK0506MM	6'	DIN5M–DIN5M	**1.39**
CK0503FM	3'	DIN5F–DIN5M	**1.19**
CK0506FM	6'	DIN5F–DIN5M	**1.39**
CK0512FM	12'	DIN5F–DIN5M	**1.89**
CK0525FM	25'	DIN5F–DIN5M	**3.39**
CK0606FM	6'	DIN6F–DIN6M, for PS/2	**1.69**
CKB6MM06	6'	DIN6M–DIN6M, for PS/2	**1.69**

KEYBOARD DIN ADAPTER

AK0505MM	Din5M to Din5M connector 6"	**.99**
AK0506FM	Din5F to Din6M connector 6"	**.99**
AK0506MF	Din5M to Din6F connector 6"	**.99**

PRINTER STANDS

Plastic Stand

SR2P	**2.49**	**2.25/12+**

PLASTIC COPY HOLDERS

HDP01

- Specially designed adjustable clip to fix books or fax papers

HDP01	**1.49**
HDP02	**3.49**

EXTERNAL CASES

NEW PRODUCT

IDE EXTERNAL CASES

- 3.5" parallel to IDE case for HDD

HDXTT3500	**NEW**	**74.95**

SCSI EXTERNAL CASES

- For external CD ROM, tape drives or hard drives
- AC input: 110v/220v; DC output: 150 watt
- Internal SCSI cables w/centronic connectors
- 1 SCSI 110v/220v auto switchable

ECHD1	**49.95**

- DC output: 150 watt
- 2 SCSI Devices 110v

ECHD2	**69.95**

ECHD2

- 4 bay external case for SCSI
- For HDD, MO, CD–ROM, DAT. SCSI–1, SCSI–2; 250W output. Measures: 7"W x 14"D x 10 1/3"H

HDXFD1004	**$129.00**

- 8 bay external case SCSI 3 case
- Equipped with 300W power supply and U/C/T audio jack

HDX508	**NEW**	**$299.00**

Internal flat cable for 3 SCSI drives

CFCC/SC2	**5.99**

FLOPPY DRIVES

HIGH DENSITY FDD

NEW PRODUCT

- 1.44 MB FDD; Easy integration

GFDM144F	FDD	**18.99**	**16.99/10+**
UFL01	3.5"/5.25" Floppy Lock		**6.99**

CONVERT/MOUNTING KIT

XMKHD2	Convert 2.5" HD to 3.5" HD	**11.49**
MKF	3.5" Convert to 5 1/4" Floppy Drive	**1.95**
MKH	3.5" Convert to 5 1/4" Hard Drive	**2.99**

MULTIMEDIA

3D Pn'P SOUND CARD

Plug n' Play, Win95 support and 3D Sound and 3D joystick support

- Supports Full Duplex Internet Phone
- Wavetable upgradeable

MSCAD711	ISA	**$22.95**
MSCADS727	PCI	**$32.95**

BNC CONNECTORS

ABT501

- Crimp, 3pc. RG58

ABC58PK3		**.59**	**.39/25+**
ABC558PNT	Twist on, 3pc. RG58	**.79**	**.49/25+**

BNC TERMINATORS

ABT501	50 OHM 1%	**.99**	**.79/25+**
ABT505	50 OHM 5%	**.79**	**.59/25+**

BNC ADAPTERS

ABALJP

- Tee Adapter

ABATJPJ	jack-plug-jack	**.99**	**.79/25+**

- Coupler

ABACOJJ	jack-jack	**.59**	**.39/25+**
ABACOJJP	jack-jack panel	**1.19**	**.89/25+**

MONTHLY SPECIAL

ANTI-STATIC WRIST

With ground wire and alligator clip

WRIST	Anti–Static	**2.90**

MOUSE PADS

- Anti-static rubber/10 1/4" x 8 3/4"

OUPB	Blue		
OUPG	Grey	**69¢**	**59¢/25+**
OUPR	Red		
OUH01	Pocket	**79¢**	**65¢/20+**

SCSI III FLAT CABLE

Best Price

UL Approved. Used for Adaptec AHA–2940 UW

- 36" SCSI 3 w/3 Connectors

CFHS368	36" SCSI III	**12.95**

HURRY–GREAT PRICES

PLACE YOUR ORDER TODAY! CALL: (408) 730–0673 or FAX: (408) 730–0735

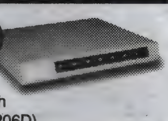
PS/2 POWER SUPPLY

Compatibility: IBM PC AT computers; UL approved

P25FP2	250 Watts	**44.95**	**39.95/3+**
P2ZFP2	200 Watts	**34.95**	**29.95/3+**

POWER SUPPLY

POWER CONSOLE



- 15 amp circuit breaker,with reset button
- Modem surge protection with two RJ11 modular jacks (PP06D)
- Full 3 line surge protection (3 m.o.v's) (PP06D)
- Noise filter (EMI/RFI) (PP06D)

PP06U	Basic Power Pad	**11.95**
PP06D	with Modem Protection	**15.95**

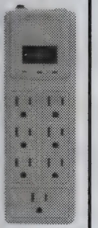
POWER STRIPS

ALL POWER STRIPS UL APPROVED

2x3 POWER STRIP with MODEM PROTECTION

- Surge Indicator Light; Durable Plastic
- Circuit Breaker, 6' Cord

CG26B 2x3 Strip **7.49**



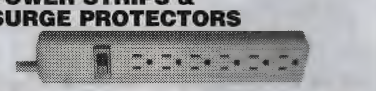
7 OUTLET POWER STRIP w/TRANSFORMER SPACE

Protect your computer from surges and spike damage.

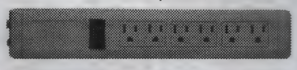
- Extra Outlet for Transformer
- Lighted On/Off Switch
- Circuit Breaker, 4' Cord

CG237P with Transformer **5.95**

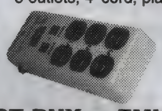
POWER STRIPS & SURGE PROTECTORS



CG26P1	4' cord plastic	**2.95**
CG26P3	6 outlets, plastic, 6' cord	**4.95**
EPS10P	6 outlets, plastic, 10' cord	**5.95**

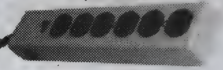


CG26P2	6 outlets, 4' cord, plastic	**3.95**

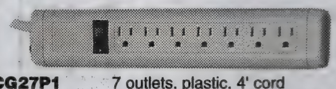


BEST BUY — EMI/RFI

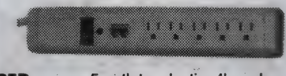
CG26D	6 outlets, metal, 2 x 3 modem/phone jack, w/3 line surge protection	**7.95**
EPS23C	w/10' power cord	**9.95**



CG26M	6 outlets, metal, 6' cord, w/basic surge protector lighted on/off rocker switch	**5.95**



CG27P1	7 outlets, plastic, 4' cord vertical socket; 3MOV	**6.95**

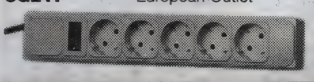


CG25D	5 outlets, plastic, 4' cord modem/ phone jack, w/3 line surge protector	**6.95**

INTERNATIONAL OUTLET

Continental European, 6' cord surge protector 220v

CG241 European Outlet **14.95**



POWER CORDS

POWER CORD EXTENSION

- 6' 3–prong HP Male plug & Female socket

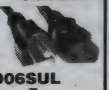
CO06EX 6' **1.49**

CO06EX

POWER CORD

- Connect wall outlet to computer or monitor

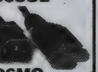
CO06SUL 6' **1.29**



CO06SUL

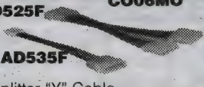
- Connect computer to monitor power cord

CO01MO	1'	**1.19**
CO06MO	6'	**1.49**



CO06MO

POWER SPLITTER CABLES



AD525F

AD535F

AD525F	6" Power Splitter "Y" Cable	**79¢**
AD535F	5" Power Cable for 3.5" FDD	

SWITCH BOXES

• 2 PCs to 1 console, AT & PS/2	
WCSAC122	**149.00**
• 4 PCs to 1 console, AT & PS/2	
WCSAC104	**235.00**
• 6 PCs to 1 console, AT only	
WCSAC106	**249.00**

NEW The most integrated CPU switch you can find. Complete with rack mount; OSD

• 8 PCs to 1 console	
WCSAC1008	**499.00**
• 16 PCs to 1 console	
WCSAC1016	**699.00**

CCK1012

SWITCH BOX CABLE SETS

• 1 VGA, PS/2 KB & mouse cable per set; 10' • For 8/16 Port Elec. Switch ONLY	
CCK1012P	**20.00/set**
• 1 VGA, AT KB & mouse cable per set; 10'	
CCK1012A	**20.00/set**

BI–TRONICS AUTO–SWITCH

- Printer Autoswitch plus Intelligent Parahub for transferring files between 2 PCs
- Software/Hot Key control
- Supports IEEE–1284 nibble mode

WASAAF201 2 PCs to 1 Printer **49.95**

- Connect 4 PCs to 1 printer
- Supports IEEE–1284 nibble mode

WASAAS401B 4 PCs to 1 Printer **89.95**

MULTIPLE VIDEO SPLITTERS

- Show the same image on multiple monitors; supports distance up to 210' with HDB15 connector

WSPAV104	4 Monitor Splitter	**85.00**
WSPAV108	8 Monitor Splitter	**125.00**

PARALLEL DUAL DIRECTIONAL AUTO-SWITCH

- 1 Computer to 2 or 4 printers or visa versa with manual selection
- For Windows 95 enhanced EPP/ECP printer port

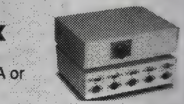
SB2502BD	AB Bi–Directional	**13.95**
SB2504BD	ABCD Bi–Directional	**22.95**
• 2 or 4 computers to a parallel peripheral		
SB2502AU	AB Auto Switch	**6.95**
SB2504AU	ABCD Auto Switch	**14.95**

All Switch Boxes allow one computer to share 2 AB or 4 ABCD output devices. or vice versa.

SWITCH BOXES

DB-25 female connectors		
SB2502	AB Switch, DB–25F	**4.95**
SB2504	ABCD Switch, DB–25F	**7.95**
SB25XX	Crossover Switch, DB–25F	**9.95**
Centronics 36 female connectors		
SB3602	AB Switch, Centronics 36F	**6.95**
SB3604	ABCD Switch, Centronics 36F	**9.95**
SB36XX	Crossover Switch, Centronics 36F	**12.95**

MONITOR & KB SWITCH BOX

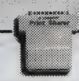


ABCD switch allows one computer to share 2/4 VGA or vice versa.

SB1502	AB Switch, HD–15F	**7.95**
SB1504	ABCD Switch, HD–15F	**9.95**
SB1552	AB Switch, HD–15/DIN 5	**8.95**
SB1554	ABCD Switch, HD–15/DIN 5	**10.95**
For mouse and keyboard		
SB9502	AB Switch, DB–9/DIN 5	**7.95**
SB9504	ABCD Switch, DB–9/DIN 5	**9.95**

SVGA KEYBOARD MOUSE SWITCH BOX

AB switch, HD–15F/DIN 5F/DB–9M	
WSB1505092	**16.95**
ABCD switch, HD–15F/DIN 5F/DB–9M	
WSB1505094	**19.95**



PRINT SHARER

- No external power required
- Normalize 6–wire straight through RJ-12 phone line Expandable up to 40 computers to share 4 printers

PS202T	Print Sharer/PC Side	**29.50**
PS202R	Print Sharer/Printer Side	**34.50**

NETWORKING KITS

ETHERNET CARDS & ADAPTERS

• 10/100Base–TX PCI Ethernet Adapter		
NECA32PD	DEC Chip	**29.95**
• Combo ISA 10Base–T Ethernet Card		
NECA16PU	UMP Chip	**14.95**
• 10Base–T PCI Ethernet Card		
NECA32PR	Realtek Chip	**19.95**

ETHERNET HUBS

• 5 port 10Base–T Hub with one BNC connector		
NHBA1005BD		**39.95**
• 8 port 10Base–T Hub with one BNC connector		
NHBA1009D		**59.95**
• 8 port RJ45 100Base–T Hub		
NHBA1608D		**229.00**
NHBA1708	Stackable	**389.00**
• 2 port 10/100BaseT switching hub		
NHBA1802S		**289.00**
• IEEE 802.3 standard, LED indicators,10mbps		
NHBR3160	16-RJ45, 1 BNC & 1 AUI	**99.95**

IDE I/O CARDS

ENHANCED IDE

- 16–bit ISA enhanced IDE, supports 8.4GB drive
- Connect extra 2 IDE HDD or other IDE device

ONEIDE Enhance IDE **25.99**

IDE & FDC CARD

- For use on IBM/ AT and clones (386,486,586)
- ISA controller, 2 IDE and 2 FDD

ONIDED IDE & FDC Card **11.90**

IDE, FDC & I/O CARD

- 1 parallel, 2 serial, 1 game port, HDD & FDD ISA controller

ONIDE2 IDE, FDC & I/O Card **13.90**

ENHANCED I/O with IDE

- ISA, 2–IDE HDD/2–FDD
- 1–enhanced parallel port with ECP/EPP
- 2 UART 16550 serial port, 1–game port

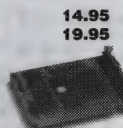
ONEIDEIO Enhance **16.95**

EPP/ECP PRINTER CARD

- EPP/ECP parallel Printer Card
- LTP1 & LTP2 selectable; 8bit card

ONEPP	One EPP Port	**14.95**
AIOPIN6535A	Two EPP Port	**19.95**

AT I/O CARD



- 2 RS–232 serial port; LPT1 & LPT2

ONATIO AT I/O Card **9.90**

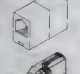
OTHER I/O CARDS

ONPP	1 printer port LPT1, LPT2	**7.90**
ONSP01	One serial port (DB9M)	**8.90**
ONSP02	Two serial port (9/25M)	**10.90**
ONSP03	16550 HS serial card DB25M	**14.95**
ONGAME	2 game port DB15F	**7.90**

NETWORKING CABLES

MODULAR ADAPTERS

Used as extension connectors for two cables



• 6C coupler Jack–Jack data		
APH6CJD	6C Coupler	**.39**
• 8C coupler Jack-Jack data		
APH8CJD	8C Coupler	**.49**
• Handset detangler adapter		
APHBTG	Handset	**2.90**

APHBTG

BULK MODULAR CABLE

- 1000' 8C Flat Modular Cable Silver, UL listed

CPH8DFSU Silver, UL Listed **59.50**

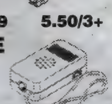
NETWORKING

TELEPHONE PRIVACY BOX

- Prevents eavesdropping of private telephone conversations or interruptions of fax or modem

CNWPHPB **5.99** **5.50/3+**

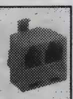
FLASHING TELEPHONE BELL RINGER



- Switchable flash or flash–and–ring option
- Line powered; no batteries required

CNWPHBR **7.99** **7.25/3+**

RJ11 TEE PHONE ADAPTERS



CNWP4CJPJ

- Additional connectors for your phone line

CNWP4C3JIP	4C 3 Jack-1 Plug	**.99**	**.75/20+**
CNWP4CJJJ	4C Jack-Jack-Jack	**.99**	**.75/25+**
CNWP4CJPJ	4C Jack-Plug-Jack	**.55**	**.45/25+**

RJ45 TEE NETWORK ADAPTER

CNWP8CJPJ	8C Jack-Plug-Jack	**1.25**	**.95/25+**

MODULAR SURFACE JACKS

WSJ4C	4C Ivory Surface Jack	**.59**
WSJ8C	8C Ivory Surface Jack	**.89**
WJPS8L	8C Flush Jack Plate	**.79**
WJPD8L	8C Flush Dual Jack	**1.09**

MODULAR CABLES

AWG28 modular line cords for the telephone.

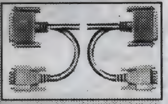
CPH4C07S	4–Crossed Wire, 7"	**.29**
CPH6C07S	6–Crossed Wire, 7"	**.49**
CPH8C07S	8–Straight Wire, 7"	**.89**

WIRE TIES (100pcs.)

CCT4	4" Nylon Tie	**.79**
CCT6	6" Nylon Tie	**1.79**
CCT8	8" Nylon Tie	**2.19**

LAPLINK CABLES

LAPLINK CABLE



- For all type of null modem connection • 6' Lengths
- 4 head-link PC/laptop to PC/laptoP • cases molded
- 2 x D–SUB, 9 & 25 contacts, female 7 conductors

CNL0925FF	DB9-DB25 F to F	**3.99**
CNL2525MM	DB25-DB25 M to M	**2.99**

NULL MODEM CABLES

6' Molded Cables

CN0909FF	DB9F to DB9F	**1.59**
CN0925FF	FF/FM/MM/MF	**1.59**

ADAPTERS

MODULAR ADAPTERS

Change RS232 port to RJ45/11/12 modular jack; molded

AM1109F/M	RJ11/12 to DB9F	
AM1125F/M	RJ11/12 to DB25F	**.99**
AM4509F/M	RJ45 to DB25F	**1.39**
AM4525F/M	RJ45 to DB25F	**1.39**

ADAPTERS

AD0925MM/MF/FF/FM	DB9 to DB15/25	**.99**
AD2536MM/MF/FF/FM	DB25 to CENT36	**1.69**
AD0915MM/MF/FF/FM	DB9 to DB15/25	**1.39**

GENDER CHANGERS

Change the gender of your cable connector.

GC09MM/FF, **GC25**MM/FF, **GC36**MM/FF **1.19**

MINI GENDER CHANGERS

CGCM09MM/FF	DB9	**1.49**
CGCM25MM/FF	DB25	**1.49**

15, 36 and 50 pin also available

DC/AC ADAPTERS

ACDC500U

ACDCVA100	DC12V to AC100V	**35.00**
ACDC300U	300mA UL AC to DC Adapter	**3.90**
ACDC500U	500mA UL AC to DC Adapter	**4.50**
AL6PRS	DC12V to 3, 4.5, 6. 7, 9, 12V, 800mA	**2.49**

I/O ADAPTERS

- IDC26–DB25F Parallel

AI26S25F **1.49**

- IDC10 Socket, Serial Port with:

AI10S09ME	DB9 for Everex	**1.49**
AI10S09MD	DB9 for Intel	**1.49**
AI10S25ME	DB25 for Everex	**1.49**
AI10S25MD	DB25 for Intel	**1.49**

SCSI CABLES

SCSI I CABLES

CS5003CN	3'	Cent 50 M to Cent 50 M	**5.99**
CS5006CN	6'	Cent 50 M to Cent 50 M	**6.99**

SCSI II CABLES

CS5003HCN	3'	DB50 M to Cent 50 M	**19.50**
CS5006HCN	6'	DB50 M/Cent 50 M	**25.50**
CS50253HDB	3'	DB50M/DB25M	**19.50**
CS50256HDB	6'	DB50M/DB25M	**25.50**
CS5006HHDB	6'	DB50M/DB50M	**25.50**

SCSI III CABLES

CSCH603	3'	HP 68M–68M	**29.95**
CSCH606	6'	HP 68M–68M	**34.95**
CSCH6C503	3'	HP 68M–Cent50M	**24.95**
CSCH6C506	6'	HP 68M–Cent50M	**29.95**

FLAT CABLES

FLAT CABLE SET for MBs

- FDD 5 connector; 24", HDD 3 connector; 19"
- I/O cable adapter; 11" and printer adapter; 11"

CFHISET5	5 piece for INTEL	**2.99**	**2.49/50+**
CFHISET5A	5 piece for ASUS	**2.99**	**2.49/50+**
• 23" FDD 34pin cable, 19" HDD 40pin cable			
CFIFSET2	For ATX MBs	**1.99**	**1.49/20+**

FLAT CABLE

• 32" 34pin flat cable for 5.25" & 3.5" FDD	
CFFD/TW	**1.59**
• 19" 40pin IDE HDD flat cable with 3 connector	
CF2/HD	**1.39**

FLAT CABLE CONNECTORS

NFS40	40C IDC Socket Connector	**.35**
NFS50	50C IDC Socket Connector	**.80**

10, 20, 34, 40, 50 PIN AVAILABLE FROM .35

Additional Flat Cables available

SCSI INTERNAL FLAT CABLE

- 50pin, Internal SCSI Flat Cable
- 23" for (2) SCSI Devices

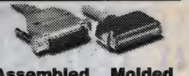
CFS/DSC **1.59**

- 51" for (6) SCSI Devices

CF7/DSC **4.90**

PRINTER CABLES

PRINTER CABLE



- Fully shielded
- DB25 male to centronics 36 male

		Assembled	**Molded**
CP1803/CPM1803	3'	**1.19**	**1.39**
CP1806/CPM1806	6'	**.89**	**.99**
CP1810/CPM1810	10'	**1.69**	**1.99**
CP1815/CPM1815	15'	**2.29**	**2.69**
CP2506/CPM2506	6'	**1.99**	**2.49**

IEEE 1284 PRINTER CABLES

CPR6D25C36	DB25M-CENT36M 6'	**6.99**
CPR10D2C3	DB25M-CENT36M 10'	**9.99**
CPR6D25H36	DB25M-HP CENT36M 6'	**12.95**

More Printer Cables Available

MOLDED MODEM CABLES

Best Price

• DB9 Female to DB25 Male		
CDM0925FM3	3'	**1.85**
CDM0925FM6	6'	**2.25**
CDM0925FM2	12'	**2.95**
• DB25 Female to DB25 Male		
CMD2525FM9	9'	**2.25**

RS232 CABLE DB25

All with 25 wires straight thru & fully shielded.

- DB25MM (male to male) can be used from PC to serial device
- 25', 50' and 100' AVAILABLE

		Assembled	**Molded**
CR/CRM2503MM/MF	3'	**1.49**	**1.69**
CR/CRM2506MM/MF	6'	**1.69**	**1.89**
CR/CRM2510MM/MF	10'	**2.29**	**2.69**
CR/CRM2515MM/MF	15'	**3.19**	**3.49**

Terms & Conditions: •Visa, Mastercard, Discover, Pre-Payment or COD's accepted•Please add $2.95 (handling fees) or $5.00 (handling fee for all Post Office orders) to each order•Exact UPS shipping charges will be added to each order•Please add an additional $5.00 per carton for all COD's (cash or cashier's check only)•Prices and availability subject to change•Net 30 POs accepted from local, state and federal government agencies, other net term requests are subject to approval (FOB origin, $100 minimum)•90-day money back guarantee (shipping charges not included)•This month's special expire at the end of the issue's month•No other discounts apply to monthly special.

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Libretto **70CT**, P120, 16/1.6GB, 6.1" Active Color	$1,645
Portege **300CT**, P133M, 32/1.51GB, 10.4" Active Color	$1,695
NEW **315**, P200MMX, 32/4GB, 12.1" FDSTN	$1,795
NEW **320CDT**, P233MMX, 32/4GB, 12.1" Active Color	$3,295
NEW **470CDT**, P200MMX, 32/3GB, 12.1" Active Color	$2,495
Satellite Pro **480CDT**, P233M, 32/4GB, CD, 12.1" Active	$2,795
Tecra **510CDT**, P133, 16/2.1GB, CD, 12.1" Active Color	$1,595
Tecra **550CDT**, P266MMX, 32/4GB, CD, 12.1" Active	$3,295
Tecra **730XCDT**, P150M, 16/2.1GB, CD, 12.1" Active	$1,595
Tecra **740CDT**, P166MMX, 16/3.2GB, CD, 13.3" Active	$2,245
Tecra **740CDT**, P166MMX, 16/2.0GB, CD, 13.3" Active	$1,945
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T-440CDX
P133MMX, 12.1"DSTN
16/1.35GB, 10xCD
Price Drop $1,195

T-440CDT
P133MMX, 12.1"TFT, 33.6 Fax/Modem
16/1.35GB, 10xCD
Price Drop $1,540

T-460CDX
P166MMX, 12.1" FSDN, 33.6 Fax/Modem
32/2.1GB, 10xCD
Price Drop $1,545

Upgrade your Laptops' Hard Disk Drive and receive an EZ Drive Bios Upgrade.

Toshiba 2.1GB 2.5"	$189
Toshiba 3GB 2.5"	$259
IBM 4GB/5GB	$469/579

T-530CDT
P166MMX, 12.1" Active Color, 33.6 Fax/Modem
32/4GB, 10xCD
Price Drop $2,545

T-750CDM
P233MMX, 13.3"TFT, 56K Fax/Modem
32/4.7GB, 20xCD
Price Drop $4,295

Desktops

Equium 5160D	P166MMX	2.1GB	32MB	12xCD	$595
Equium 5200D	P200MMX	2.5GB	32MB	12xCD	$675
Equium 6200M	P200Pro	4GB	32MB	24xCD	$895

Price Drop

TEXAS INSTRUMENTS Extensa™ 660CDT
P133, 10xCD, 11.3" Active Color

Blow Out

80/4GB	$1,695
16/2.1GB	$1,145

SOFTWARE

MS Office for MAC	$279
MS Office 97 Pro for PC	$369
MS Excel 97 for PC	$149
MS Word 6.0.1 for MAC	$149
MS Word 97 for PC	$149
MS Windows NT 4.0 5User	$479
Photoshop 4.0	$395
Illustrator 7.0	$269
PageMaker 6.5	$329
QuarkXpress 4	$699
Freehand 8	$299
Painter 5	$239

IBM ThinkPads IBM

ThinkPad 560 P133, 16/2.1GB, 12.1" TFT, 4.5Lbs. Price Drop $1,395

380ED	P166MMX	16/2.1GB, CD	12.1" FDSTN	$1,695
380ED	P166MMX	16/3GB, CD	12.1" TFT	$2,395
560X	P233MMX	32/4GB	12.1" TFT	$2,995
560	P133	80/4GB	12.1" TFT	$1,895
760XD	P166MMX	32/3.3GB, CD	12.1" TFT	$3,395
760XL	P166MMX	16/2.1GB	12.1" TFT	$2,395
770	P200MMX	32/3.2GB	13.3" TFT	$2,995
770	P233MMX	32/4GB	13.3" TFT	$3,395
770	P233MMX	32/5GB	14.1" TFT	$4,595

Price Drop Price Drop Price Drop

IBM 20XCD-ROM for ThinkPad 760E, ED, EL & XL 269

COMPAQ Notebooks COMPAQ

Armada 7330T P150, 16/2.1GB, 12.1" TFT (CD optional) Price Drop $1,395

Armada 7790DMT	P233MMX	32/5GB, CD	13.3" TFT	$3,995
Armada 7710MT	P150MMX	16/1.6GB	12.1" TFT	$1,595
Armada 7330T	P150	80/4GB	12.1" TFT	$1,895
Armada 4150	P150MMX	16/1.6GB	12.1" DSTN	$1,295
Armada 4131*	P133	16/1.4GB	12.1" TFT	$1,045
Armada 1585DMT	P150MMX	16/2.1GB, CD	12.1" TFT	$1,895
Armada 1550DMT	P133MMX	16/1.4GB, CD	12.1" TFT	$1,495
Presario 1621	233MMX	32/2.1GB, CD	12.1" DSTN	$1,995
Presario 1610	P150MMX	16/1.6GB, CD	12.1" DSTN	$1,495

COMPAQ Mobile 8XCD-ROM for Armada 4100 Ser. $125*

Apple PowerBooks Apple

G3/250 750PPC/250MHz 32/5GB, 20xCD 12.1" TFT Price Drop $3,995

3400C	603e/240	16/3GB, 12xCD	12.1" TFT, 33.6 Fax	$2,845
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reviews

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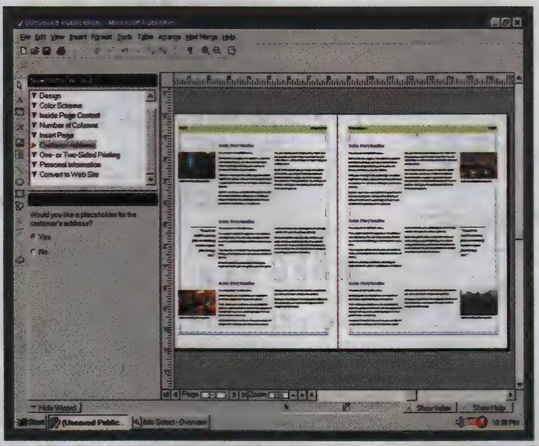

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Tracy Baker-PC Today Magazine Nov. 1997

COMPUTER SHOPPER

The Premium Choice system makes high-class technology affordable*. . . .* We were quite impressed with the prompt, firendly technical support we received . . . But at press time, most major direct vendors charded about $500 more for a comparable system. This system offers some choice components at a comfortable price.

January 1998 Issue.

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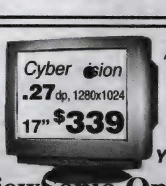

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reviews contents

Editor's Picks

The only way for economies, cultures, and industries to survive in a changing world is to diversify. In the computer and technology industries, this has meant manufacturers and vendors offering consumers and corporations a vast array of choices in order to ensure success. In 1998, there is a computer system, a piece of hardware, or a software application—or any combination or components thereof—to satisfy nearly every need.

One look at the system market provides ample evidence. There are many different kinds of corporate, SOHO, and home PCs out there, and all provide users with different features for their particular niches. For example, in this issue, Bill O'Brien looked at the **Digital PC 3500 6300,** a workstation that's relatively inexpensive, simple to service, and all business. This isn't the PC for music or game play—but it's nearly perfect for a corporate user who wants network manageability and the powerful 300MHz Intel Pentium II processor.

Hitachi's **VisionDesk 1120** is another business PC, but with an entirely different look and feature set. It's a compact system targeted to offices that are looking to save space, but that have enough cash to invest in power and style. Rick Broida discovered that although the VisionDesk is pricier than other corporate systems, it offers a sleek all-in-one chassis, a flat-screen LCD monitor, and an impressive graphics package compared with those of most corporate PCs.

Ed Perratore reviewed a third workplace-oriented system, the **NexStar-600** from NexTrend Technology. The NexStar comes with everything you need for the corporate environment, including an onboard LM78 hardware-monitor chip, LANdesk Client Manager 3.0, and a DMI configuration utility. But the NexStar is unusual because of the dazzling components that will no doubt appeal to users outside the business world, including a 333MHz Pentium II, 64MB of SDRAM, a 6.4GB hard drive, an AGP graphics card, a 17-inch monitor, and an expansive software bundle.

At $999 ($1,199 with a 15-inch monitor), the **Micron Millennia SE 233** can be a frugal small-business owner's or home user's dream. Reviewer Daniel Begun was delighted that this inexpensive PC truly raised the standard of under-$1,000 computing to mainstream levels. It comes prebuilt with 32MB of EDO DRAM, a fast 3.2GB hard drive, a superior graphics subsystem, and an open design that actually lets users expand its capabilities.

If four completely different types of systems aren't enough of a choice for you, take a look at O'Brien's review of the **Sony VAIO PCV-230.** One of the latest in Sony's popular VAIO line, this 300MHz Pentium II-powered system with superb video and audio is a SOHO machine that can do double duty as a competent home system.

Diversity doesn't just come from system vendors. Software developers have a multitude of choices for the consumer looking to complete nearly every computing task. For example, if you are looking for simple desktop publishing for your small or home office, **Microsoft Publisher 98** and **Serif PagePlus 5** are just two of your many choices.

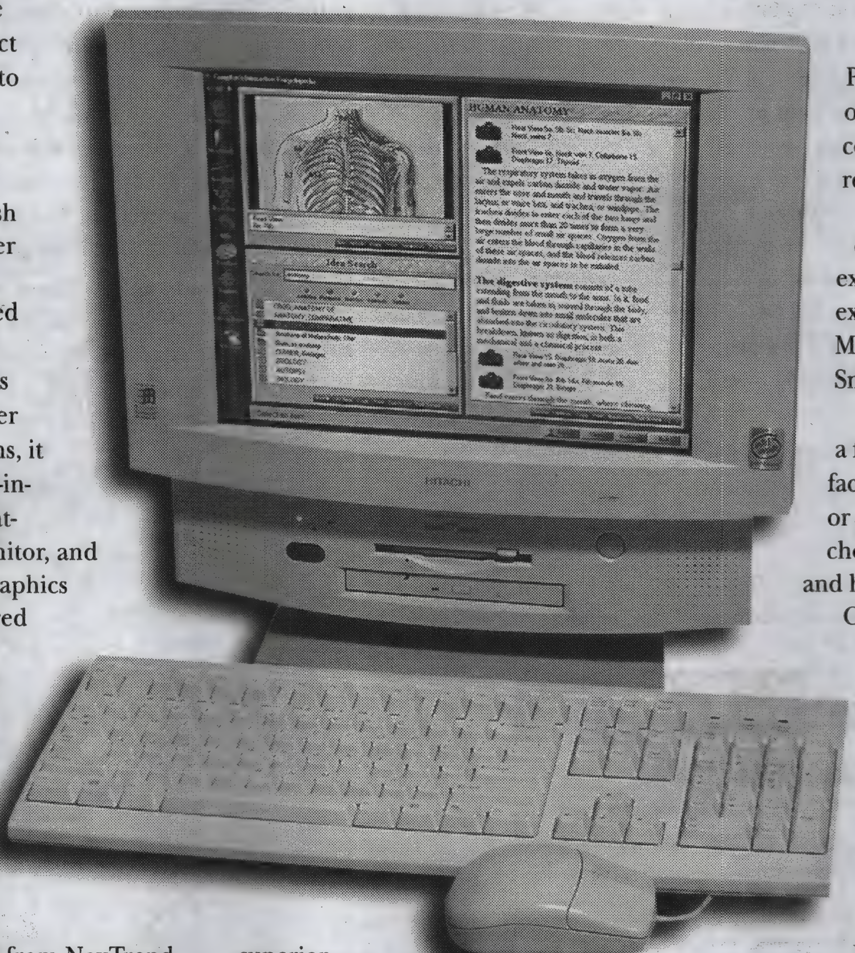
Wayne Kawamoto took a look at Microsoft Publisher's latest offering and couldn't help but recommend it.

This anticipated release offers exactly what you'd expect from this Microsoft Office Small Business Edition mainstay: a familiar interface, excellent color guidance, theme choices, Web savvy, and helpful wizards. Of course, if you want similar features at a similar price, but don't want to go the Microsoft route, there's always **PagePlus.**

Reviewer Lynn Ginsburg enjoyed PagePlus' fine wizards and Web-page creation, and found that the program's additional features, such as proofreading, word count, Table of Contents, and Index wizards, set it apart from its competition.

To stay lucrative, the computer industry struggles to serve every function and taste. In the end, this lets us demand more from manufacturers and vendors, and helps us find exactly what we need.

—Eileen Bien



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How We Tested

For information on how we test desktop systems, see "How We Test" in this issue's Reference section.

HITACHI VISIONDESK 1120

Take Back Your Desktop

Hitachi's innovative VisionDesk 1120 steals only the bare minimum of precious desk space.

BY RICK BROIDA

We have seen the future of business computing, and it looks exactly like Hitachi PC Corp.'s Hitachi VisionDesk 1120. Reminiscent of Compaq Computer Corp.'s year-old Presario 3060, the ultra-compact VisionDesk has just three components: a slim LCD screen (which also happens to house the CPU, the hard drive, the CD-ROM drive, and everything else normally found inside a desktop computer), a keyboard, and a mouse. All told, the system usurps only a sliver of desk space, yet it provides nearly every feature you could want in a business PC.

Although the VisionDesk's stylish, space-saving form factor is its most obvious reason to celebrate, its power and versatility merit equal praise. Inside hums a 233MHz MMX Pentium processor, 32MB of SDRAM, a 512K L2 cache, and—perhaps most significant for a business considering buying several PCs at once—a 10/100BaseT LAN adapter. The unit also sports a 4.3GB Ultra DMA hard drive, a 20x CD-ROM drive, and a 3Com/U.S. Robotics 56Kbps x2 WinModem Voice. Clearly, the VisionDesk is outfitted to handle business-computing chores of any caliber.

We wondered if the VisionDesk's notebook-like integration might translate to subdued performance, but the system proved as fleet as any full-size desktop PC. Though its Winstone 98 score of 16.3 fell short of our 266MHz Pentium II baseline system's, it's the highest score among the 233MHz MMX Pentium machines we've tested so far. Its CPUmark$_{32}$ score of 436 was also right on target.

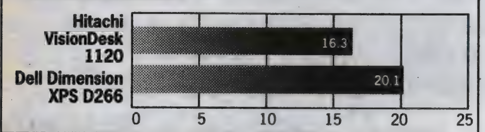
COMPUTER SHOPPER **BUSINESS TEST SUITE**

Hitachi VisionDesk 1120

ZD

	Hitachi VisionDesk 1120 (32MB)	*Benchmark System:* Dell Dimension XPS D266 (32MB)
PROCESSOR TYPE	233MHz MMX Pentium	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	436	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	93	105
16.8 Million Colors @ 800x600	59	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,090	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,070	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	34/88	0/0
CPU Utilization (%)	97/98	43/43

Business Winstone 98 (65,536 Colors @ 1,024x768)



System as Tested: 32MB SDRAM; 512K pipeline-burst cache; 4.3GB Quantum Fireball Ultra DMA hard drive; 20x CD-ROM drive; integrated ATI 3D Rage LT graphics card with 2MB SGRAM; integrated 13.3-inch TFT LCD; built-in speakers; 3Com/U.S. Robotics 56Kbps x2 WinModem Voice modem; 10/100BaseT LAN adapter; Mitsumi keyboard; two-button mouse; Windows 95 OEM Service Release 2; additional software

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

The VisionDesk's floppy and CD-ROM drives are mounted just below the screen. The latter is identical to most notebook CD-ROMs: Its pop-out tray isn't mechanized. It scored a 1,070 in the CD-ROM WinMark test—below average for this class, but certainly acceptable for the majority of multimedia and information-retrieval tasks.

The hard drive, conversely, scored 10 percent above the average for 233MHz MMX Pentium systems, with a robust 1,090 on the Business Disk WinMark test. Small wonder: It's a 4.3GB Quantum Fireball drive with Ultra DMA architecture.

The feature most likely to turn onlookers green with envy is the screen. The VisionDesk's 13.3-inch Super TFT, which provides roughly the same viewable area as a 15-inch desktop monitor, is brighter, sharper, and more uniform than any notebook screen we've ever seen, and superior to most stand-alone desktop LCDs. It affords a 140-degree viewing angle and supports 65,000 colors at 1,024x768 resolution. You can also connect an external monitor; the VisionDesk has an XGA-out port.

Hitachi VisionDesk 1120

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www.hitachipc.com
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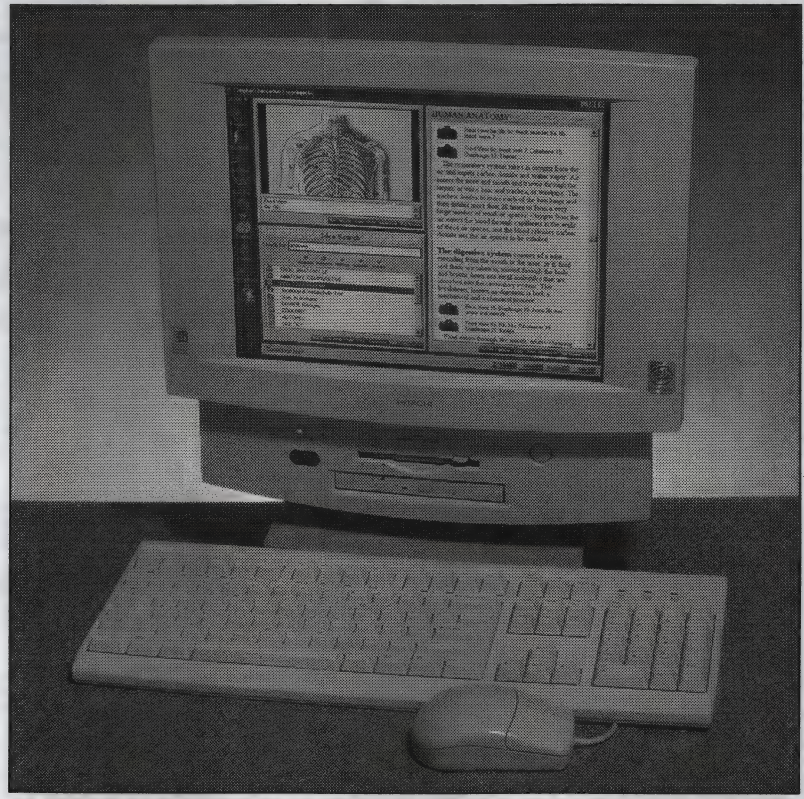

The VisionDesk's brilliant 13.3-inch screen isn't much thicker than most desktop TFTs, yet it houses the entire computer.

Powered by an ATI 3D Rage LT processor, the graphics subsystem blew the rafters off the Graphics WinMark test. Its score of 92.7 with 65,000 colors at 1,024x768 resolution is a full 38 percent higher than average for systems in this class. And it's only 23 percent behind the baseline system's score. But with only 2MB of SGRAM, the VisionDesk can't deliver 24-bit color at its maximum resolution. Most desktop systems now come with at least 4MB. Of course, this would pose a problem only for users working with high-end graphics applications.

All this wonderful hardware comes in a package that measures just 15.7x15.2x7.5 inches (HWD) and weighs a mere 22 pounds. The CPU unit/screen rests on a sturdy pedestal that can tilt forward and backward. Mounted in the front face are the power button, three status LEDs, a brightness-control slider, and an IrDA infrared port—great for easy data-sharing with a notebook or a handheld organizer. A pair of speakers resides in the VisionDesk's lower corners; powered by a Sound Blaster Pro-compatible audio subsystem, they deliver adequately loud and clear stereo sound. The only things missing are a microphone and an external volume control.

On the right side of the VisionDesk, you'll find the PS/2 mouse and keyboard ports, along with two USB ports. Most of the remaining expansion ports, including the modem and net-

(continued on page 365)

MICROSOFT PUBLISHER 98

Simplify Desktop Publishing

Publisher's new wizards let almost anyone create attractive publications.

BY WAYNE KAWAMOTO

Windows Small-business owners who want to create attractive promotional newsletters, flyers, business and greeting cards, and even Web pages can rely on the powerful Microsoft Publisher from Microsoft Corp. The latest version, Publisher 98, makes the first-rate program even easier to use. It also does a better job of helping nonartists who can't even match their socks create works of business art.

Publisher's strength comes from its outstanding wizards, which provide step-by-step instructions to help you create publications. As in the past, these wizards let you make choices about the design of your documents, and then perform the tasks for you. In this version, Publisher greatly improves and expands the visual designs and styles that you can work with.

Microsoft Publisher 98

Microsoft Corp.
1 Microsoft Way
Redmond, WA 98052-8300
800-426-9400; 425-882-8080
www.microsoft.com
Support: Live, toll-free phone support, 6 a.m. to 6 p.m. weekdays (PT)
Requires: 109MB hard drive space; Windows 95 or Windows NT 4.0 or later
Mfr. Est. Price: $99; upgrade, $79

You still use wizards to select and define the type of document you want to create, but the relatively few designs of the past (with names such as classic, bold, and basic) have been replaced by attractive, professionally designed graphics themes such as arcs, checkers, marble, and more. You can have Publisher apply a different theme to an individual document to immediately change its look. The program even adjusts a theme to fit different sizes of paper. We particularly liked the new Logo Creation wizard, which combines text and graphics in different ways to create engaging business logos.

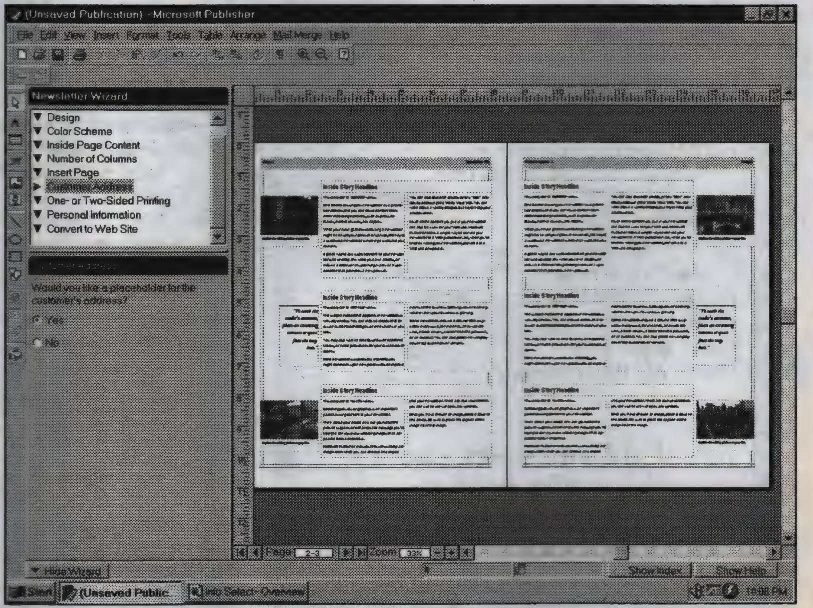
Once you've selected a theme, Publisher provides attractive layouts for a whole host of documents. This way, you can end up with stationary, newsletters, greeting cards, and other printed materials that all have the same look. And the program doesn't just offer pure window dressing—when working with flyers, for example, you can choose among different styles that convey specific information, promote sales or events, and so on.

Another plus is that you can now use wizards at any time during the design process—they appear on the left side of the layout page, so you can call on them at any step to alter your publication. This is a welcome change from prior versions that had you make all your wizard design decisions at the beginning.

This latest version offers new color guidance that includes 60 professionally coordinated color schemes. You simply choose a scheme, and Publisher alters the hue and colors in your publication—a slick feature. Publisher can also handle spot color and define it for use by professional printers. Publisher builds personal profiles with your name, company, address, phone number, logo, and color scheme so you can apply this information to future documents and no longer have to reenter data.

Publisher is also very Web-aware: You can create a document and then have Publisher convert it into a Web page. In our testing, the program did a solid job of building a simple but attractive and logically structured site out of a newsletter, then helped us preview it in our default browser (it worked with Netscape Navigator 4.0 as well as Microsoft Internet Explorer 4.0). If you want to design a Web page from scratch, you can select a look and rely on a wizard to step you through the job. For Web design, the program comes with 340 animated GIF files and 40 music clips. We were also impressed that Publisher checked our newsletter for problems, such as graphics that contained embedded text, before converting it into a Web page.

The raw numbers are impressive. Publisher comes with 1,600 professionally designed templates, to which you can add text and graphics to build your publications. And to ensure that you have lots of art to use in publications, the program comes with a generous collection of 10,000 clip-art images, 1,500 digital photographs, and 175 fonts. Though collections this large can sometimes be hard to manage, Publisher adequately organizes them by category and lets you easily preview and select them. For additional art, you can also turn to Microsoft's Web-based Clip Gallery Live and add these into your Clip Gallery.



Would you like a placeholder for the customer's address?
● Yes
○ No

Microsoft Publisher 98 comes with wizards that let you select a look for your documents and then walk you through the creation process.

The intuitive interface matches that of Microsoft Office 97. Since most users will probably create their text using Word (Publisher and Word come bundled along with Excel in Microsoft Office 97 Small Business Edition 2.0), Publisher does a great job of accepting text from Word and flowing it through the columns and pages of a document. Also, Publisher 98 continues to let users readily integrate text and graphics from a variety of sources. Publisher supports most common text and graphics formats.

Many of the layout and drawing tools are similar to those in prior versions, with some additions, including enhancements to the arbitrary angle rotations and special text effects. We liked the program's new ability to automatically adjust a headline's font size so it always fit its location in a layout, and the slick support of the IntelliMouse, which uses a spin of the wheel to quickly zoom in and out of documents. Publisher offers a Word-style spell-checker that marks and corrects misspelled words, and can perform mail merges with addresses stored in the program, or from other sources.

Publisher 98 is as easy to use as the far less ambitious Broderbund Print Shop, but offers far more capability with its layout features, graphics tools, and Web provisions. Word processors offer desktop publishing features of their own, but can't approach the power of those in Publisher 98 and aren't as easy to use for this purpose. The only folks Publisher won't satisfy are the users of top-of-the-line, four-color separations and other print processes that require Adobe PageMaker or QuarkXPress.

In all, Microsoft Publisher 98 is the desktop publishing program for business owners and the rest of us. Its slick combination of wizards, templates, and color schemes help users quickly create artistic impressions without artistic skills. ▼

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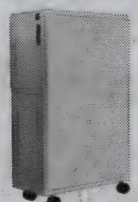

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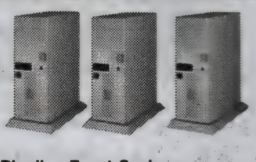

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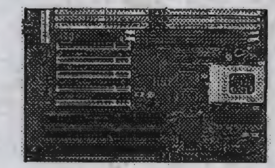

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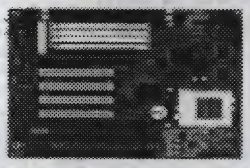

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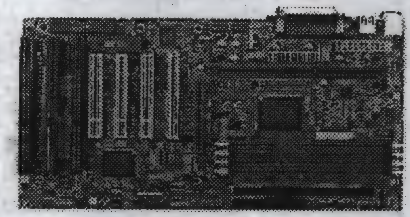

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Hitachi VisionDesk 1120

(continued from page 360)

working jacks, are on the left side of the unit, but they're inexplicably hidden behind a plastic panel that you must pry loose with a screwdriver. Fortunately, the screen bezel hides all the ports from plain view, so leaving off the panel doesn't detract from the VisionDesk's beauty. The ports are standard fare: parallel, serial, XGA out, microphone, and line-out.

The VisionDesk's Mitsumi keyboard was a bit stiff for our liking, but we had no complaints with the generic two-button mouse. We also enjoyed the unit's notebook-style suspend mode.

Although the VisionDesk's stylish, space-saving form factor is its most obvious reason to celebrate, its power and versatility merit equal praise. Inside hums a 233MHz MMX Pentium processor, 32MB of SDRAM, a 512K L2 cache, and—perhaps most significant for a business considering buying several PCs at once—a 10/100BaseT LAN adapter.

Hitachi's software bundle is fairly minimal. In addition to Windows 95 with Microsoft Internet Explorer 4.0, the VisionDesk comes loaded with LapLink 7.0, Iris AntiVirus, Watergate PC Doctor, and Intel LANDesk Client. The last should make IS personnel happy, as it allows for easy administration of networked VisionDesks. For $200 more, the VisionDesk 1125 comes with Windows NT 4.0—but that's the only difference between the two models. Hitachi reports it is "looking into" bundling some telephony software, which would indeed be welcome given the modem's voice capabilities.

The company's three-year warranty covers everything but the LCD's backlight, which is covered for only one year. If your system needs repair, Hitachi will pay for express shipping both ways and promises a turnaround time of no more than 72 hours. At press time, the company was investigating offering onsite service, but pricing was unavailable. Toll-free technical support is obtainable 24 hours daily.

Though there's no debating the value of such a comprehensive warranty and service package, one hard fact remains: You could buy two "traditional" desktop PCs for the price of one VisionDesk. Only businesses with deep pockets—and consumers with lots of discretionary income—are likely to splurge on this technological marvel, which is unfortunate considering its desk-friendly proportions, spectacular display, out-of-box connectivity, and commendable performance. ▼

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PHOTOIMPACT 4

Image Editor Meets Web Design

A plethora of features sets this image-editing/Web-designer suite apart from its higher-priced competitors.

BY SUSAN GLINERT

Windows

More than just an image editor, Ulead Systems' PhotoImpact 4 is a well-integrated suite of tools for organizing, managing, and retouching bitmap files, with special emphasis on Web-oriented graphics. The PhotoImpact bundle contains three main modules: PhotoImpact itself, an image-editor/Web-design application; Album, a visual file organizer; and GIF Animator, a program for creating dynamic Web graphics. There is also the SmartSaver utility, which compacts animated GIF, GIF, JPEG, and PNG images with the highest possible quality in the smallest possible file size for fast downloading. Wrapped in an unusual visual interface, this program is ideal for creating and refining bitmap images for any type of output.

Users of previous versions will notice a considerable change in the way PhotoImpact's interface—which now adheres to the Microsoft Office standard—is arranged. The main editing window is surrounded with dockable toolbars and palettes. The standard toolbar contains shortcuts to common commands, the Attribute toolbar contains context-sensitive tool properties, and the Status bar shows information about the current image. In addition, there's a toolbox with buttons for image-editing functions, and the Color palette for assigning and tweaking colors.

PhotoImpact 4

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Two new features grace the interface: the customizable Quick Command panel to access often-used features and record macros; and the EasyPalette, a tabbed panel containing thumbnails of special effects, textures, and objects that can be dragged and dropped into your image. The contents of the EasyPalette change depending on what function and tool are currently selected. The top of the palette has buttons for displaying the special-effect galleries, object libraries, and layer manager; viewing variations; modifying effects; and controlling the appearance of the palette. When you select a tool such as the paintbrush, the palette displays the choices grouped by function: for example, Paint Tools, Paint Effect, Retouch, and Cloning. Within each tabbed category, there are thumbnail representations of what the function does, such as blur or spotlight. This completely visual approach eliminates much of the guesswork surrounding the application of filter and special effects.

You can modify thumbnails directly. The ability to set the thumbnails to use the current image—thus providing a preview of each special effect on your document—is a great feature that saves hours of experimentation. Ulead packed the EasyPalette with impressive predefined special

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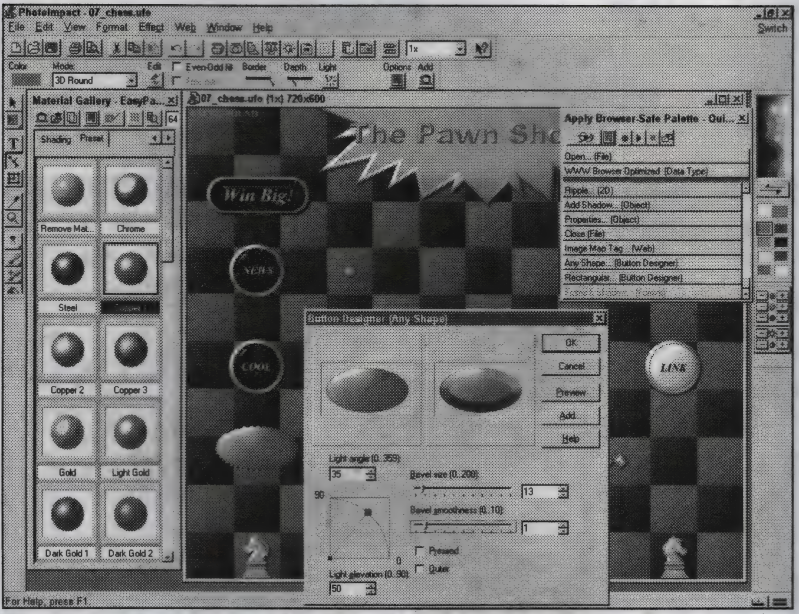
effects such as gradients, textures, rainbows, kaleidoscopes, particles (rain, fog), frames, edges, fancy paintbrushes, and Web-page background. Of course, you can also create your own galleries of effects and object libraries, and save predefined styles and tool settings here as well.

Like Corel Photo-Paint, PhotoImpact uses objects—separate bitmaps that reside on separate layers—for managing and arranging the content of an image. From the layer manager tab in the EasyPalette, a mouse click or two shuffles the order of objects; applies color enhancement, filters, and drop shadows; or adds a URL.



PhotoImpact 4's cool button designer adds 3-D bevels and lighting effects to humdrum geometric shapes.

PhotoImpact is a more-than-competent image editor, containing all the tools you might expect: selection and masking, color correction, paintbrushes, fill, and retouching. The program goes a big step further by incorporating versatile vector-path tools for tracing bitmaps and creating paths (you can also import Adobe Illustrator files). The path tool and the included set of predefined outlines work together with a set of special shading modes to produce dimensional objects with smooth outlines, making it a snap to create buttons, text headlines, and bars for a Web page.

Unlike higher-end image editors, whose free-form approach to bitmap enhancement can be daunting to novices, PhotoImpact offers a task-oriented approach. If you want to create a tiled background, select Web: Background Designer. Need a button? Choose Web: Button Designer and select a shape. When the image is complete, you save it in a Web-optimized format by selecting Web: SmartSaver and choosing a file type. Any number of colors or adjacent areas can be designated as transparent, and you can use masks to create transparent areas as well.

PhotoImpact lets you create object-based and selection-based image maps. However, instead of saving the information with the image, you have to copy the generated HTML string to the clipboard and paste it into an HTML file—a clunky implementation and useless unless you are familiar with HTML coding. The HTML Image Assistant, which is similar in function, lets you create custom tags to copy and paste into your HTML document.

The GIF Animator is designed to work with PhotoImpact, but it can also be used as a stand-alone program. The interface relies on a set of floating toolbars, but instead of the EasyPalette, there's a layer pane showing consecutive frames in the animation. When you start the program, you can use the animation wizard to load a series of bitmaps, a video, or a single file, and to set the timing parameters. The basic idea is to modify a sequential series of pictures (frames) by adding transition effects such as wipes or blinking colors. Once the animation is complete, you run the Optimization wizard, which removes unused colors from the palette, and save the resulting file in GIF or Active Desktop format. The program is exceptionally easy to use—we designed a simple logo animation in just a few minutes.

The third member of the trio, Album, is the program to use for organizing files into thumbnail albums. Each thumbnail can be assigned keywords, visual marks, comments, and data fields such as author and subject. You can fax, print, send, or search for files based on any criteria and save the results to another album, or perform batch conversions among popular formats. If you double-click on a thumbnail, the file is automatically loaded into PhotoImpact.

PhotoImpact 4 ships with a wide variety of clip art, sample Web pages, objects, and textures. The manual is not very helpful, and there's no included tutorial. However, the suite is so easy to use, it isn't difficult to learn by doing.

PhotoImpact 4 is a great idea for anyone looking for a classy, inexpensive image editor. ▼

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OPERA 3.0

A Cure for Browser Blues

A Norwegian surfer may be the answer for consumers tired of the domestic browser wars.

BY DAVID HASKIN

Windows

Sophisticated products such as Microsoft Internet Explorer and Netscape Navigator are available for managing e-mail, browsing, and even chatting over the Web—and they're free. So why spend $35 list for a little-known Norwegian Web browser that doesn't have as many tools? The answer is simple: Unlike Internet Explorer and Navigator, Opera Software's Opera 3.0 is fast and reliable, and doesn't demand a lion's share of your computer resources.

This last benefit is the first thing you'll notice when you download Opera—its download file is a svelte 1MB compared with its behemoth competitors'. In addition, installation requires only about 3MB of hard drive space.

Like Internet Explorer and Navigator, Opera's main toolbar, located at the top of the screen, provides fast access to common functions such as reloading the current page or returning to previously visited sites. By default, a viewing pane on the left side of the screen—à la Windows Explorer—contains your Hot List, Opera's equivalent of Internet Explorer's favorites and Navigator's bookmarks. The rest of the screen is the main viewing pane, dedicated for displaying the Web page itself.

The Hot List pane includes two sections. Your user-created folders are located on the top, and the contents of highlighted folders are below. To add the address of your current Web page to the Hot List, you simply highlight the folder in which you want to store it, right-click on it, and select the Add Current menu command.

As with other browsers, you can view Web pages by double-clicking a Hot List item or typing the URL in the text box, which in Opera is located beneath the main viewing pane. But beyond these basic similarities, Opera works differently than Internet Explorer and Navigator. In fact, in a number of instances, this new browser is more efficient than either of the older ones.

For example, a bar at the bottom of the viewing pane lets you control the appearance of Web pages. It includes a drop-down list that lets you zoom the page from 20 percent of its normal size up to 1,000 percent. Another toolbar icon lets you toggle between having graphics images load or just viewing the Web page in text-only format for faster downloading.

Opera 3.0

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operasoftware.com
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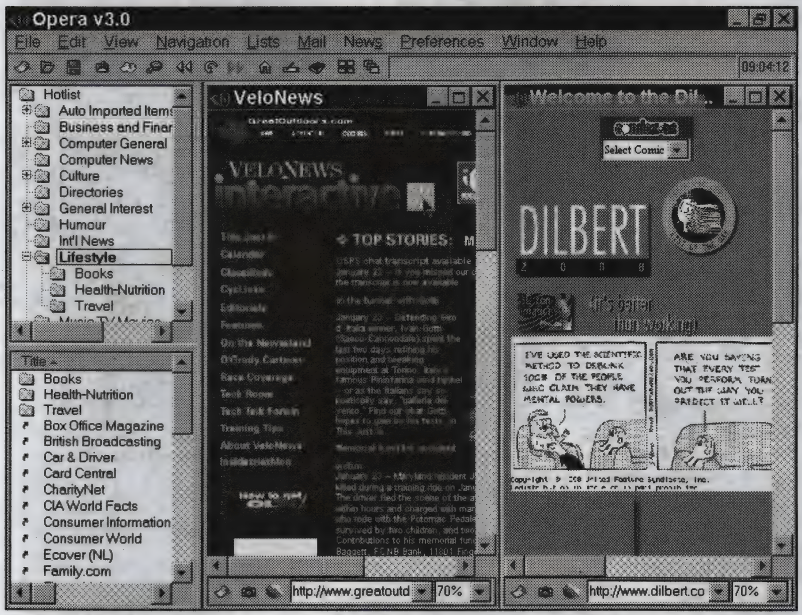
List Price: $35

Opera supports multiple viewing windows, each of which can display a different Web page; using menu options, you can arrange the windows onscreen so that you can view all the Web pages simultaneously. To view multiple Web pages in other browsers, you must open multiple copies of the browser—which is not only less convenient, but uses up a lot more system resources.

Using this multiple-window approach, you can right-click on a Hot List folder and make a menu selection, and Opera automatically loads all sites in that folder into separate windows. We created one folder containing all the Web sites we normally view each morning—Opera managed to load all our favorite news, sports, and weather sites in one fell swoop.

To further explore the convenience of Opera's multiple-viewing-window feature, we decided to create a Hot List folder for Web sites grouped together by category, called Search Results. We first found several Web sites using a search engine and downloaded them into separate windows. After closing the windows of sites we didn't want, we filed all remaining sites into our Search Results folder using the Add All right-click menu selection. Neither Internet Explorer nor Navigator can match this type of efficiency.

For sites that require tight security transmissions, such as e-commerce sites where you're required to enter credit-card numbers, Opera supports SSL 2.0, SSL 3.0, and digital certificates. Opera also supports browser plug-ins such as the popular RealPlayer video and audio player. However, getting plug-ins to work with Opera was confusing at best, requiring users to follow a series of difficult-to-understand dialog boxes to accomplish a task that's automatic in Internet Explorer and Navigator.



Opera's Hot List not only provides fast access to your favorite Web sites, but enables you to open groups of sites simultaneously.

When you start the program, Opera can automatically restore the same windows and Web sites that were onscreen in your previous session. Also, Opera includes keystroke commands for all browsing tasks—a boon for those users who prefer keyboards to mice or who are physically unable to use a mouse efficiently. For example, you can immediately go to a designated home page just by pressing Control-Home.

All that said, Opera has some significant omissions. For example, although it can handle such HTML features as frames and multiple fonts, it doesn't support Java applets. Opera Software claims there will be Java support by the time version 4.0 is released.

And when you get beyond its browsing capabilities, Opera's other features are meager. Its newsreader doesn't provide a fast way to find a newsgroup out of the entire selection of 20,000 newsgroups, and it doesn't let you read or reply to messages while you are offline. Its e-mail capabilities are even more anemic—you can send messages, but can't receive or manage them. Nor does Opera have the wealth of other extras provided by its competitors, such as Microsoft NetMeeting or Netscape Conference.

We noted that Opera didn't crash once during our three-week test period. By contrast, Internet Explorer 4 and Navigator each crashed several times on our test system during the same test period.

Just before press time, Opera released version 3.1 which is supposed to load faster, take up even less room on your hard drive, and clean up a few bugs. Internet Explorer and Netscape Navigator contain more robust capabilities and can be downloaded for free. However, if your sole desire is to browse the Web, Opera 3.0 proves that less can be more. Our tests showed Opera to be faster and more reliable than the Big Two, and a lot easier on system memory and hard drive space. For many of us, those advantages are easily worth $35. ▼

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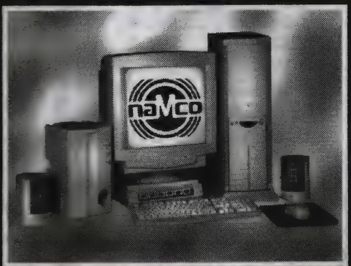

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NEXTREND NEXSTAR-600

A PC That's All Work and Little Play

This 333MHz Pentium II powerhouse from NexTrend aims for a broad following and may well earn it.

BY ED PERRATORE

Lesser-known vendors that hope to build powerhouse systems that impress buyers and undercut the competition on price have their work cut out for them. NexTrend Technology's seems to have found the answer—its reasonably priced 333MHz Pentium II-based NexStar-600 is designed for every type of buyer, but offers the most to business users.

The NexStar-600 includes 64MB of SDRAM, situated in two of three DIMM slots on the capable Asus P2L97 motherboard. An IBM 6.4GB Ultra DMA hard drive, a Matrox Millennium II AGP graphics card, a CyberVision 17-inch monitor (with a viewable area of 16 inches), a screaming 32x Toshiba CD-ROM drive, and a Creative Labs Sound Blaster AWE64 audio card coupled with an Altec Lansing PowerCube speaker system round out the basic attractions. Factor in the CommWave 56Kbps x2 DSP-based, voice-capable CW56ES fax modem plus the Microsoft IntelliMouse, and you have the crux of the hardware. The NexStar's price runs a rough parallel to a similar package from Dell Computer Corp.

The software bundle makes the system worthy of consideration for either home productivity or business. Besides Windows 95, there are Lotus SmartSuite; McAfee's VirusScan and PC Medic 97; and consumer-oriented products such as Compton's Interactive Encyclopedia 98, AT&T WorldNet, CompuServe, AOL, and Microsoft Network setup software.

Should you wish to use the NexStar as a managed system in a corporate setting, support through an onboard LM78 hardware-monitor chip will let you take advantage of Desktop Management Interface functionality. To make management easier, the system also comes with LANDesk Client Manager 3.0.

Within the 17.25x7.25x17-inch (HWD) minitower case lies ample clearance for whatever devices you'd want to add. With Matrox's AGP graphics card and the ISA-based modem and audio cards installed—the latter is in a shared ISA/PCI slot—four PCI slots remain free. The Toshiba XM-6202B CD-ROM drive takes up one of the three 5.25-inch bays (one of which, owing to a metal punch-out plate, can also accommodate a 3.5-inch device), and one of the three 3.5-inch bays remains open; the floppy and hard drives occupy the other two.

When you need to open the case, removing a single screw along the rear's left edge lets you grab the left side panel and snap it away using two handy thumb notches for grip. The same process removes the right side panel to expose the shielding beneath the motherboard. The Pentium II cartridge uses an attached heat sink with a noticeably quiet fan, and air can enter via the side panels. There are two power switches: one rocker switch in the rear, and a push button in the front that looks like a reset button. Oddly, both are power switches, but the rear one must be on for the front one to work.

In testing, the NexStar-600 held its own against the other 333MHz Pentium II systems we've seen in a number of areas. The NexStar was an average performer on CPUmark$_{32}$, and on our Business Winstone 98 suite—which tests the overall system running a number of everyday 32-bit applications. On our Business Disk WinMark 98 test, the NexStar's IBM 6.4GB Ultra DMA drive was 8 percent behind the average for its class.

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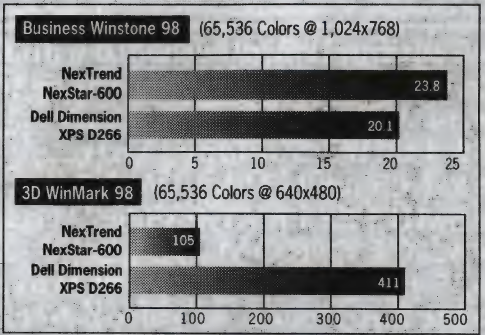
NexTrend NexStar-600

	NexTrend NexStar-600 (64MB)	Benchmark System: Dell Dimension XPS D266 (32MB)
PROCESSOR TYPE	333MHz Pentium II	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	828	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	138	105
16.8 Million Colors @ 800x600	121	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,360	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,840	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/47	0/0
CPU Utilization (%)	57/98	43/43



System as Tested: 64MB SDRAM; 512K pipeline-burst cache; Asus P2L97 motherboard; Intel 440LX chip set; IBM 6.4GB Ultra DMA hard drive; 3.5-inch 1.44MB floppy drive; Toshiba 32x EIDE CD-ROM drive; Matrox Millennium AGP video card with 4MB WRAM; CyberVision 17-inch ds69/16VAS monitor; Creative Labs Sound Blaster AWE64 audio card; Altec Lansing ACS45 speakers with subwoofer; CommWave 56Kbps x2 CW56ES fax modem with voice and telephony; ATX midtower case with 230-watt power supply; Enhanced 104-key keyboard; MS IntelliMouse; Windows 95 OEM Service Release 2; Lotus SmartSuite 97; additional sofware

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showing was on the CD-ROM WinMark 98 test—but this was hardly a surprise. For a test that stresses playback, the included 32x Toshiba drive was bound to finish furlongs ahead. It did—with a whopping 31 percent advantage over the average.

In testing 2-D graphics, the Matrox Millennium II AGP card with 4MB of WRAM came out well ahead of our benchmark system, the 266MHz Pentium II-based Dell Dimension XPS D266, and right on target for the class average at both the 1,024x768 (16-bit color) and 800x800 (24-bit) settings. The CyberVision ds69 monitor provides a clear picture with its 0.27mm dot pitch. It also offers an abundant selection of settings; its one shortfall was its noninterlaced refresh rate of 70Hz at our test resolution.

The NexStar-600 comes with a software bundle that includes Lotus SmartSuite, Compton's Interactive Encyclopedia 98, and LANDesk CLient Manager 3.0.

On our Video Playback tests, however, the Millennium fell short. Though running our carousel MPEG-1 clips at their native 352x240 resolution went smoothly, the NexStar's 57 percent CPU utilization served as a warning of what the same clip might do when zoomed up to full screen. So we were not surprised when nearly half the frames visibly dropped out at full screen, and CPU utilization surpassed 97 percent. It should be noted that throughout the test, colors continued to display vibrantly.

The Matrox card's superiority in 2-D graphics did nothing for the NexStar in 3-D rendering. It resorted to software emulation for a small number of tests on 3D WinBench 98, but the bigger problem was that the driver's hardware abstraction layer (HAL) simply did not support a significant portion of the test settings. The overall result was a paltry score of 105, less than 74 percent below the benchmark system's score. A NexTrend spokesperson notes that the company will swap out any component upon request, so should you choose to veer from any one of the tested elements, the company will work with you.

Better news about the NexStar's multimedia capabilities comes on the audio side. Altec Lansing's PowerCube includes the clear-sounding ACS45 speakers and a subwoofer. Combined with Creative Labs' Sound Blaster AWE64 audio card and its support for hardware-based, wavetable and FM synthesis, the result is truly a treat for the ears. Audio extends to the CommWave modem, which features telephone and answering-machine capability (through the included ESSPhone application), speakerphone functionality, and compliance with Microsoft Telephony Application Programming Interface (TAPI)-enabled applications such as Microsoft NetMeeting. NetMeeting is, of course, bundled along with the included copy of Microsoft Internet Explorer.

The NexStar-600 comes with a three-year parts-and-labor warranty, but there are catches. The processor, main memory, and all external peripherals—such as the monitor, mouse, and speakers—are only covered onsite for a year. An outside agency, Integrated Automation International (IAI), handles both toll-free call-in and onsite service, referring any problem it cannot handle to NexStar itself. Extending the onsite coverage for the second and third years costs $149, though support for the parts covered for only a year will not be extended. If you want to extend the warranty, do so at purchase time; buying it later will cost you $199 instead of the standard $149.

Once past the 30-day money-back guarantee, there's no returning the system. This, a company representative explains, is because IAI technicians will perform any service necessary, even down to replacing the motherboard if they have to. Nevertheless, shoppers who need the comfort of returning a PC altogether for a refund, take note.

The NexStar-600 may want to please everyone, but it will have better luck pleasing the SOHO or corporate businessperson than the 3-D gamer or CAD professional. If you seek a system for relatively straight business use, and you don't mind a no-refund policy that kicks in after 30 days of ownership, you could do a lot worse than the NexStar-600. ▼

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SERIF PAGEPLUS 5 PROFESSIONAL EDITION

Serious but Safe Desktop Publishing

Serif PagePlus 5 is a simple, effective alternative to higher-level business desktop publishing.

BY LYNN GINSBURG

Windows

In the crowded low-end desktop publishing software market, it's difficult for any one program to differentiate itself. But Serif PagePlus 5 Professional Edition manages just that with a wizard-driven environment that makes it easy for a beginner to painlessly create DTP documents, combined with serious features and tools typically found only in high-end publishing programs.

PagePlus is packed with all the features you'd expect in a consumer-level DTP program, including its newly expanded, huge collection of 300 design wizards, 400 fonts, and 17,500 clip-art images and photos. But PagePlus also straddles the gap between the low and high ends with more sophisticated features like the ability to create indexes, tables of contents, master pages, page spreads, and advanced printing features such as four-color and spot separations.

Serif PagePlus 5 Professional Edition

Software Publishing Corp. Holdings
3A Oak Rd.
Fairfield, NJ 07004
800-424-1992; 973-808-1992
www.spco.com
Support: Live phone support for first 30 days, 8 a.m. to 8 p.m. weekdays (ET); paid options available thereafter
Requires: 25MB hard drive space; Windows 95 or Windows NT 4.0
List Price: $99.95

PagePlus starts you on the publication-design process by letting you choose among creating a new document with a wizard, creating a document from scratch, or opening an existing publication. If you opt for a wizard, you're presented with a variety of document types to choose from, including newsletters, brochures, forms, stationery, labels, promotional materials, and Web sites. Selecting any of these document types yields more choices, letting you either choose between style types such as modern, jazzy, and classic, or from a thumbnail preview of the design.

After you've made your selections, PagePlus places you in a clean and functional design environment, with streamlined toolbars on the top, bottom, and left-hand side of the page. There's balloon help for quick information on each tool and more in-depth context-sensitive descriptions of the tools in the onscreen status bar. The program also offers an onscreen sliding color palette for easily picking colors.

New in PagePlus 5 is an onscreen Portfolio where you can store text, designs, and images. The Portfolio lets you drag any object from the page to store it in the Portfolio, allowing you to create your own custom library of frequently used design elements and objects. The elements are available in the Portfolio as thumbnails, and you also have the option to name each element so you can quickly scan an alphabetical list of names in the Portfolio for speedy access. The Portfolio also offers a find function for direct access to specific elements.

PagePlus has added new wizards for creating tables of contents and indexes. The Table of Contents wizard lets you assign first- and second-level attributes to style sheets to create your TOC. For instance, you could designate headings as first-level attributes and subheadings as second-level attributes. The wizard then searches your document for the assigned attributes and automatically generates a TOC with first and second levels. This is an extremely useful feature when working with longer documents and is typically found only in higher-end programs.

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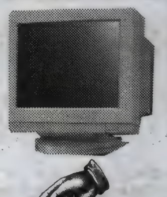

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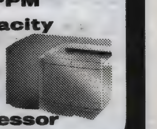

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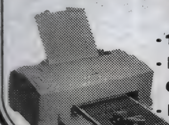

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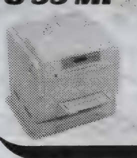

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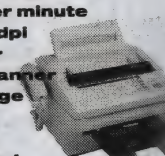

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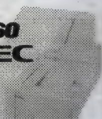

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Using PagePlus's Index wizard and the included WritePlus word processing program, you can insert markers for selected words you'd like included in an index as you create your document. The Index wizard will then automatically search for these words and list them in an index with the corresponding page. Of course, this means you'll have to either use the WritePlus word processor to create your original document or insert markers in WritePlus after you're finished. But if you plan on creating a long document that requires an index, this is an excellent option.

The big news in this version of PagePlus is its ability to create and publish Web documents. This is a key addition, since the Web is now one of the most popular mediums for desktop publishing. Wizards start you off on the Web design process, with 17 Web-page templates to choose from, including basic, classic, jazzy, and modern designs for business, community, or personal home pages. The wizard gathers basic information such as contact info and page titles, then automatically creates multiple-page Web sites. For the most part, the designs are attractive, but they are fairly basic. Of course, if you prefer to create your own design, you have the option to start from scratch.

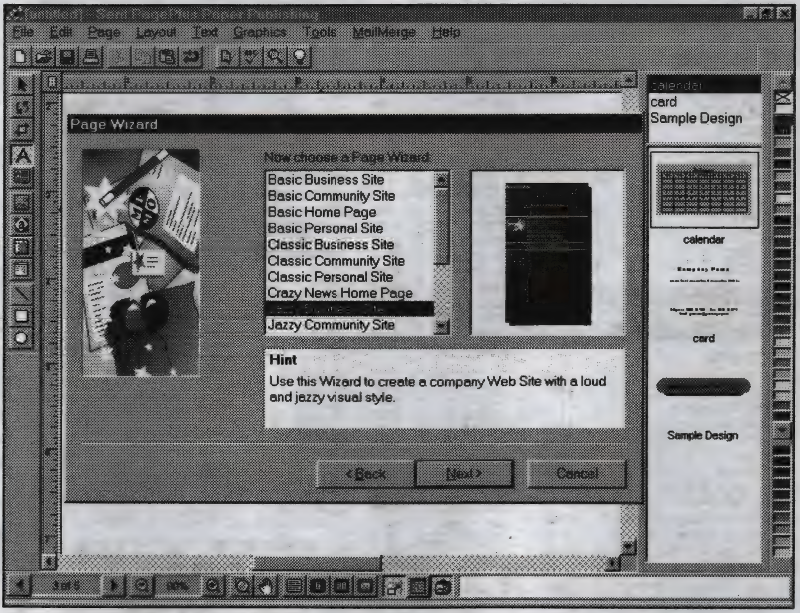
PagePlus also straddles the gap between the low and high ends with more sophisticated features.

Once you're ready to start customizing your Web-site design, PagePlus offers a number of Web-specific tools, such as a tool for creating hyperlink hotspots, and another for setting the export and display options for pictures. There are also quick and useful wizards for adding animated text marquees and inserting animated clip-art GIFs from the program's quality collection. When you've finished your Web-site design, the helpful Layout Checker can detect potential Web-specific problems such as long download times or text that can't be properly reproduced on the Web.

The main drawback to the Web-publishing features in PagePlus is that the program creates the Web documents in the PagePlus format, not in HTML. That means you're not working with actual HTML code, so every time you want to preview your document in a browser, the program must first save the document to HTML. For a multiple-page Web site, that can be extremely time-consuming. In addition, this precludes the possibility of using a third-party Web authoring tool to tweak your site. This problem is by no means unique to PagePlus; Microsoft Publisher 98, for instance, does the same thing. However, it does limit PagePlus's actual usefulness as a tool for Web-site design.

This package offers a nice combination of low- and high-end desktop publishing features. That helps it stand out from more basic programs like Broderbund Software's PrintShop Pro and Corel Corp.'s Print House, and places it in direct competition with the market leader, Microsoft Publisher 98, which also offers power and ease of use. PagePlus manages to differentiate itself from Publisher with such features as the Table of Contents and Index wizards, and with the additional functionality of a tool such as WritePlus's proofreading and word-count features. Still, PagePlus can't match the quality of Publisher's wizards and designs, or Publisher's high level of user interactivity and hand-holding.

PagePlus is an excellent choice for beginners who need a program that can start them off with wizards, templates, and other ease-of-use features, then offer a variety of high-end tools for sophisticated customization. ▼



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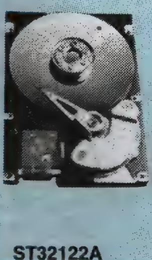

- 128K Buffer
- 11ms Access Time

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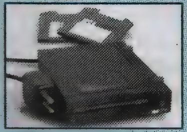
ST32122A

IOMEGA ZIP PLUS



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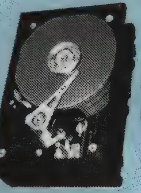

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4.3GB	12ms	128K	Ultra-ATA	ST34342A	$172
6.4GB	12ms	512K	Ultra-ATA	ST36451A	$245
8.6GB	10.5ms	128K	Ultra-ATA	ST38641A	$339

WESTERN DIGITAL ULTRA DMA

2.5GB	11ms	256K	E IDE	WDAC22500	$145
3.2GB	9.5ms	256K	E IDE	WDAC23200	$165
4.3GB	9.5ms	256K	E IDE	WDAC24300	$189
5.1GB	11ms	256K	E IDE	WDAC35100	$219
6.4GB	9.5ms	256K	E IDE	WDAC36400	$269

Maxtor ULTRA DMA

4.3GB	9.7ms	256K EDO	ATA-4	MR84320D	$182
6.4GB	9.7ms	256K EDO	ATA-4	MR86480D	$239
7.0GB	10ms	256K EDO	ATA-4	MR87000D	$299
8.4GB	9.7ms	256K EDO	ATA-4	MR88400D	$319
11.5GB	9ms	256K SDRAM	ATA-4	MR9115 2D	$CALL

FUJITSU ULTRA DMA

2.62GB	10ms	128K	ATA-3	FJMPA3026ATU	$142
3.50GB	10ms	128K	ATA-3	FJMPA3035ATU	$172
4.37GB	10ms	128K	ATA-3	FJMPA3043ATU	$192
5.25GB	10ms	128K	ATA-3	FJMPA3052ATU	$212
6.48GB	10ms	256K	ATA-3	FJMPB3064ATU	$249

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3.25GB	13ms	128K	FATA-3	TB2912	$289

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Speed	Interface	Int./ Ext.	Item. No.	Price
24X	IDE	Int.	MDFX240	$62
32X	IDE	Int.	MDFX320	$72
2X-8X CD-R	IDE	Int.	MDCR2801TE	$295

TEAC

Speed	Interface	Int./ Ext.	Item. No.	Price
32X	IDE	Int.	TFCD532E	$79
16X	SCSI	Int.	TFCD516S	$99

Addonics

20X	PCMCIA	Ext.	FOCDC20X	$285
20X	Parallel Port	Ext.	FOCDP20X	$245
24X	Parallel Port	Ext.	FOECD24X	$255

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Capacity	Interface	Int./ Ext.	Item. No.	Price
100MB	Parallel	Ext.	IM10012	$135
100MB	SCSI	Ext.	IM10011	$135

ZIP PLUS

100MB	SCSI/Prl.	Ext.	IM10660	$179

JAZ

2GB	SCSI	Int.	IM10479	$489
2GB	SCSI	Ext.	IM10508	$579

OEM ZIP

100MB	IDE	Int.	AC100MBZIP	$109

AVATAR PERIPHERALS INC

250MB	PC Card	Ext.	A782020	$219
250MB	Parallel	Ext.	A782017	$219

SYQUEST

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1GB	Parallel Port	Ext.	S2SPARQ1PE01	$175

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Value AWE64 Kit	C45045001002	$147
Encore PC-DVD Kit	C45071201000	$255

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	PhotoPC 600 XGA	EPB062011	$615
Kodak digital science SOLUTIONS	DC120 Camera	KD8524399	$699
	DC210 Camera	KD1648146	$789
	DC50 Camera	KD8551632	$439
CASIO	QV-200 Digital Camera	CVQV200	$379
	QV-700 Digital Camera	CVQV700	$465
SONY	Mavica Flash Digital Camera	SVMVCFD5	$455
	Mavica Flash + Zoom Digital Camera	SVMVCFD7	$635

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Capacity	Access	Cache	Interface	Item No.	Price
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2.26GB	8ms	512K	UW SCSI	ST32272W	$339
4.55GB	8ms	512K	USCSI	ST34572N	$495
4.55GB	8ms	512K	UW SCSI	ST34572W	$505
4.55GB	7.5ms	512K	USCSI	ST34501N	$569
4.55GB	7.5ms	512K	UWSCSI	ST34501W	$595
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9.1GB	7.1ms	512K	UWSCSI	ST39173W	$CALL
9.1GB	7.5ms	512K	USCSI	ST19101N	$905
9.1GB	7.5ms	512K	UW SCSI	ST19101W	$929
18.2GB	7.6ms	512K	USCSI	ST118273N	$1,535
18.2GB	7.6ms	512K	UWSCSI	ST118273W	$1,559
23.2GB	13ms	2MB	USCSI	ST423451N	$1,445
23.2GB	13ms	2MB	UWSCSI	ST423451W	$1,475

WESTERN DIGITAL

2.1GB	8ms	512K	USCSI	WDE21703N	$315
2.1GB	8ms	512K	UW SCSI	WDE21707W	$359
4.3GB	8ms	512K	USCSI	WDE43603N	$515
4.3GB	8ms	512K	UW SCSI	WDE43607W	$539
9.1GB	<7.9ms	512K	USCSI	WDE91003N	$749
9.1GB	<7.9ms	512K	UW SCSI	WDE91007W	$775

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3.2GB	Parallel	Ext.	STT63200P	$179
8GB	SCSI	Ext.	STTST8000E	$399
8GB	ATAPI	Int.	STT28000ARFT	$285
8GB	SCSI	Int.	STT28000NRFT	$339

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4MB	SCSI	Ext.	STD64000N	$629
8MB	SCSI	Int.	STD28000N	$695
8MB	SCSI	Ext.	STD68000N	$805

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AHA-2920 PCI 32-bit	AZ2920	$135
AHA-2940U PCI 32-bit	AZ2940U	$229
AHA-2940UW PCI 32-bit	AZ2940UW	$265

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SONY VAIO PCV-230

Sony Sets a New SOHO Standard

Sony's new line of lower-priced VAIO desktop PCs combines business and pleasure.

BY BILL O'BRIEN

When a consumer electronics giant such as Sony Electronics tosses its hat into the computer ring, you're bound to see something out of the ordinary. Sony's Video Audio Integrated Operation (VAIO) line of computers offers the potential of full integration with the company's imaging and audio products.

We reviewed an excellent example of the breed a few months ago: the Sony VAIO PCV-240, which was priced about $800 above similar models from Dell Computer Corp., Gateway 2000, Micron Electronics, NEC Computer Systems Division, and others. (See the February 1998 Multimedia Direct review "Computing Power Meets A/V Integration in Sony's PCV-240," p. 279.) To bring down its pricing to more competitive levels, Sony is introducing a new model, the Sony VAIO PCV-230, trimmed of its Iomega Zip drive, its TV tuner, and its multiple video inputs and outputs, and with a more selective group of bundled software. In the exchange, its $2,829.98 manufacturer's estimated price tag is about $1,000 less than that of its predecessor. Although it really hasn't lost much, the PVC-230 now feels more like a business machine—but with the promise of after-hours fun.

The PCV-230 still features a 300MHz Pentium II with 64MB of memory and still produces comparable CPUmark$_{32}$ scores. The same 6.4GB IBM hard drive matches its previous performance. The ATI AGP graphics card has been changed from an All-in-Wonder to an Xpert@Play, but the change didn't affect the Business Graphics WinMark 98 score significantly. Combine the individual prowess of the components under the aegis of the Business Winstone 98 suite of tests, and the PCV-230's score of 22 puts it right where it should be for its class.

Sony VAIO PCV-230

Sony Electronics
3300 Zanker Rd.
San Jose, CA 95134
888-315-7669; 408-432-1600
www.sony.com/pc
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Mfr. Est. Price: $2,829.98

Although the video-input facilities offered by the TV tuner are gone, video output is still available for large-screen presentations or game play from the Xpert@Play. The loss of the Zip drive could be a critical issue given the system's large-capacity hard drive, but though Sony doesn't have a backup upgrade for the PCV-230, it isn't difficult to find a $99 parallel-port Zip drive.

One thing that was not changed in the transition to a lower-cost model was Sony's 17-inch CPD-220VS monitor, an $829.98 component of the system price. Its 15.9-inch viewing area and 0.25mm-dot-pitch Trinitron tube proved an excellent medium for graphics, video, and sound. A low-distortion speaker is integrated into each side of the monitor's case, and a woofer with adjustable Bass Boost is built into the monitor's pedestal.

Sony claims the available sound from this arrangement rivals that of home stereo systems. We will admit the audio has a good presence and excellent overall quality comparable to a midlevel stereo system's. When not blasting audio CDs from the CPU611 CD-ROM drive, you can pump wave files through the wavetable ESS Maestro PCI sound card.

Sony's stack of bundled software swells the 3-inch-thick CD binder in which it's stored. The 40 titles cover everything from digital imaging to entertainment. The high points among the productivity software are Microsoft's Works and Money. General applications include Sony's own Communications Center telephony software (using the video phone does require the addition of an optional USB camera), both Internet Explorer 4.0 and Netscape Navigator, and Microsoft's 3D Movie Maker.

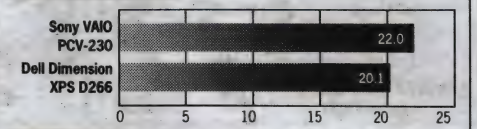
Sony also preinstalls Sony VAIO Space II software on every PCV-230. This interface, with Web-enabled

COMPUTER SHOPPER MULTIMEDIA TEST SUITE

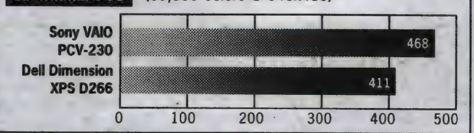
Sony VAIO PCV-230

	Sony VAIO PCV-230 (64MB)	*Benchmark System:* Dell Dimension XPS D266 (64MB)
PROCESSOR TYPE	300MHz Pentium II	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	716	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	135	105
16.8 Million Colors @ 800x600	113	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,310	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,320	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/0	0/0
CPU Utilization (%)	49/48	43/43

Business Winstone 98 (65,536 Colors @ 1,024x768)



3D WinMark 98 (65,536 Colors @ 640x480)



System as Tested: 64MB SDRAM; 512K cache; IBM DHEA 36480 6.4GB hard drive; Sony CDU611 24x CD-ROM drive; ATI Xpert@Play AGP graphics card; Sony CPD-220VS 17-inch monitor; ESS Maestro PCI sound card; speakers integrated into monitor; GVC 33.6Kbps DSVD K56flex data/fax/voice modem; Windows 95 OEM Service Release 2 Microsoft Works; additional software

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hotspots, is meant to make it easy for new users to get started with their new system. In addition, it walks you through the registration process and helps you sign up for Internet service. There is a 90-day free-access offer. If you are a more experienced user, you'll be able to shut off the interface features.

The PCV-230 is housed in a charcoal-gray 15x9x17.5-inch minitower with a sliding front panel. The panel covers its four externally accessible drive bays, two of which hold the floppy and CD-ROM drives. Another bay for the hard drive is on the inside. The back panel is done up in a veritable rainbow of hues, with every cable connection color-coded; when matching colors isn't an option, there are port descriptions as well.

The audio available from Sony's CD-ROM drive, wavetable sound card, integrated speakers, and adjustable Bass Boost woofer is probably the best in its class.

One push on a tab at the back of the case releases its side panel. Inside is an Intel motherboard with 440LX chip set and Phoenix BIOS. In general, the interior is about as spacious as it gets, with no overhanging cables or wires, and offers easy access to all slots, sockets, and board connections. To make things even easier, a motherboard diagram, illustrating slot and jumper/connector positions, is affixed to the side of the Delta Electronics 200-watt power supply.

The modem occupies the motherboard's only ISA slot. The shared slot is vacant, the sound card sits in one of the three PCI slots, and the AGP slot is dedicated to the graphics board. Full-length interface cards (if there are any more being sold) will fit without a problem. Two of the three DIMM sockets hold the system's current 64MB of memory, which can be expanded to a maximum of 384MB.

Sony offers 24-hour daily toll-free customer support. The baseline program appears to be responsive. We called twice, at opposite times of the day, and were connected to a support person within a few minutes. However, we created a problem that required the attention of the next level of support, and that bogged things down. During our first call, we spent an hour on hold; 40 minutes during the second call.

Warranty coverage is for parts and labor onsite for one year. As a basic plan, this is similar to offerings from other computer vendors. At press time, Sony's sales department reported that the company was still in the process of formulating an extended warranty offering.

With the PCV-230, Sony has produced a competitively priced system. However, total cost of ownership means including the expected maintenance price. If Sony's extended plan, when available, is competitive with the two-year onsite warranty extensions offered by Dell or Gateway, for example, then the overall PCV-230 package is desirable. If not, you'll need to balance whatever additional price you might pay against the importance you lend to the Sony brand name and its promise of integration within the Sony family of products. ▼

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DJ1600CM	$1799.00
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LJ5/5M Color	$3699/$4799.
LJ6P/6MP	$729/$849.
Memory	$Call

CANON

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BJC-250	$159.
BJC-4200/4300	$199/$199.
BJC-4550	$299.00
BJC-620C/7000	$289/$439.
LBP-465 Laser	$349.00
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MICRON MILLENNIA SE 233

PC Value and Performance

The Micron Millennia SE 233 stands out among a flurry of inexpensive systems as a competent general-purpose PC.

BY DANIEL A. BEGUN

By now, computer buyers are no strangers to the concept of a PC costing around $1,000. With fully operational systems selling for such affordable prices, many homes are now adding these systems as second PCs. Even budget-minded corporations are gobbling them up. As long as your computing needs remain fairly basic—such as word processing, e-mail, and Web browsing—these systems are a good investment.

One such buy is Micron Electronics' Micron Millennia SE 233. Starting with its direct price of $999, you get a choice of no monitor, a 15-inch display, or two different 17-inch options. The review system came with a 15-inch monitor, a $200 option, bringing the total system price to a still-reasonable $1,199.

The SE 233 is available as a prebuilt, ready-to-ship configuration, with what Micron calls "Computers Now." With a heavy nod to instant gratification, if you order today, you will have the system in your hands tomorrow. But unlike Micron's other lines, the SE 233 can't be customized. Your only choices with the SE 233 are in the monitor and the extended warranty options.

As the SE 233's name implies, it has a 233MHz MMX Pentium under its hood. Keep in mind that although the processor is in a Socket-7 ZIF socket, the Micronics M55Hi motherboard does not support faster CPUs, so upgrading the processor at a future date is not currently an option. Although our system arrived with 16MB of EDO DRAM, the system will come standard with 32MB by the time you read this. Using four SIMM slots, the SE 233 can use up to a total of 128MB. The system has 512K of pipeline-burst L2 cache integrated onto the motherboard.

The SE 233 scored a disappointing 12.6 on the Business Winstone 98 test—a full 12 percent slower than what we have seen from other 233MHz MMX Pentiums. Note, however, that these other systems mostly had 32MB, compared with the SE 233's 16MB. The SE 233, with 32MB, will likely gain the performance boost it needs to be on a par with the competing systems.

The graphics subsystem, on the other hand, easily bested the other 233MHz systems. Using a S3 ViRGE-based Diamond Stealth 3D 2000 PCI graphics card, the Micron Millennia SE 233 is 12 percent faster than similar systems at 16-bit color and 22 percent speedier at true color. But as good as the SE 233 may be for 2-D graphics, if your plans include 3-D graphics, such as in some of the newer games, you are in for a disappointment. The SE 233's score of 44 on the 3D WinBench 98 test is relatively low—we have been seeing scores between 200 and 500 on Pentium II systems with AGP-based graphics cards. The graphics card can be upgraded via Diamond from its 2MB to 4MB, but the 3-D performance gain would still not come close to that of the Pentium II systems.

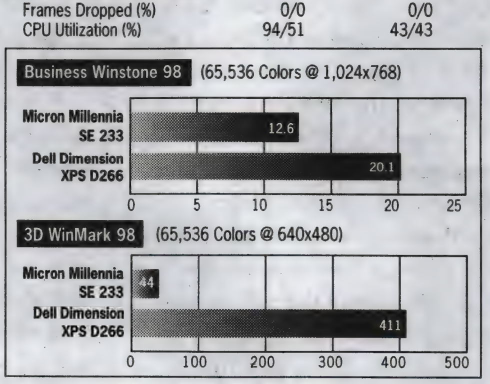
Using a 3.2GB Ultra DMA Western Digital Caviar AC23200, the SE 233's hard drive subsystem manages to be about 15 percent faster than similar systems. Its Hitachi CDR-8130's performance is right on par for a 16x CD-ROM drive.

Opening up the 17.6x6.6x17.6-inch (HWD) midtower case is as simple as removing a thumbscrew and sliding off the side panel. A well-designed layout permits easy access to everything inside. The SE 233 includes three PCI slots, one of which is populated by the graphics card; a 3Com/U.S. Robotics 56Kbps x2 data/fax modem occupies one of the three ISA slots; and a PCI/ISA shared slot remains vacant. One of two accessible 5.25-inch bays holds the CD-ROM drive, two accessible 3.5-inch bays are empty, and the floppy drive is housed in a dedicated 3.5-inch bay. Of two internal 3.5-inch bays, one is used by the hard drive. The SE 233's ports are labeled with small icons, and the ports include two PS/2, two serial, two USB, ECP/EPP parallel, MIDI/joystick, audio in, audio out,

COMPUTER SHOPPER MULTIMEDIA TEST SUITE

Micron Millennia SE 233

	Micron Millennia SE 233 (16MB)	*Benchmark System:* Dell Dimension XPS D266 (32MB)
PROCESSOR TYPE	233MHz MMX Pentium	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	438	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	81	105
16.8 Million Colors @ 800x600	69	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,100	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,100	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/0	0/0
CPU Utilization (%)	94/51	43/43



System as Tested: 16MB EDO DRAM; 512K pipeline-burst cache; Micronics M55Hi motherboard; Intel 430HX chip set; Phoenix BIOS; 200-watt power supply; 3.2GB Ultra DMA Western Digital Caviar AC23200 hard drive; 16x ATAPI Hitachi CDR-8130 CD-ROM drive; integrated Creative Labs Vibra 16C audio chip; Advent AV009 powered speakers; Diamond Stealth 3D 2000 graphics card with 2MB EDO DRAM; 15-inch Micron 500FGx monitor; 3Com/U.S. Robotics 56Kbps x2 data/fax modem; Windows 95 keyboard; MS Mouse; Windows 95 OEM Service Release 2.1; additional software

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

and microphone connections.

The 15-inch Micron 500FGx monitor has 13.8 inches of visible area. It uses a 0.28mm-dot-pitch flat-square tube with an Invar shadow mask. Although the monitor maintains a sharp focus, the color and brightness got progressively washed-out as the resolution or refresh rate increased. With the Diamond graphics card, the SE 233 achieves 24-bit color up to 800x600 at 85Hz. The system's maximum noninterlaced resolution is 1,280x1,024 with 256 colors at 60Hz; however, at 1,280x1,024, the text on the display is practically too small to read.

Micron Millennia SE 233

Micron Electronics
900 E. Karcher Rd.
Nampa, ID 83687
888-634-8799; 208-893-3343
Fax: 208-893-3424
www.micronpc.com

Support: Live toll-free phone support, 24 hours daily; 30-day money-back guarantee; one-year parts-and-labor warranty; one year onsite labor with the CPU and memory covered for five years, and the balance of the components for three years parts, $49; second and third years of onsite service, $129

Direct Price: $1,199

A Creative Labs Vibra 16C audio chip, integrated onto the motherboard, provides wavetable synthesis via software emulation. MIDI playback quality is unimpressive, lacking the instrumentation of hardware-based playback or better software wavetable solutions. The powered Advent AV009 speakers provide crisp-sounding audio, but they lack significant bass response.

The Millennia SE 233 doesn't offer a lot in terms of power, but does offer better graphics, 32MB EDO DRAM, and more expandability than other sub-$1000 systems.

Micron also sells a version of the SE 233 with the corporate milieu in mind. The $899-direct ClientPro VXE 166 uses the same motherboard, CD-ROM drive, graphics card, and midtower case, but comes with a P166 MMX processor, a 1.2GB hard drive, and a 10/100Mbps NIC. However, neither system supports DMI 2.0. Without DMI compliance, there is no guarantee that the systems can be managed over a network.

Micron offers toll-free telephone support around the clock. During our test call, we were on hold for less than three minutes before talking to a technician. Although it took some time to attempt different solutions, the technician eventually solved the problem we posed. Micron systems traditionally come with a standard five-year warranty covering the CPU and memory; all other parts are covered for three years, and there is one year of onsite service. The SE 233 represents a departure from the norm; it comes with a only a one-year parts-and-labor warranty. You can upgrade, however, to the better warranty for an additional $49. Another $129 adds two additional years of onsite service.

If you need an inexpensive corporate computer or a speedy game machine, the SE 233 is not what you want. But as long as your needs are simple and you can live with its limited upgradability, you'd be hard-pressed to get a better value. ▼

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122B
182B
181B
180B
710B
125B
120B
120AXB
121B
121AXB

MODEL#	EXT. 5.25	EXT. 3.5	INT. 5.25	INT. 3.5	POWER SUPPLY	DIMENSIONS W X D X H	PRICE	OPT'L FAN
110	6	2		2	250W	7.5X16.3X24.5	$95	2nd
120	4	1		4	250W	7.5X18X25	$130	2nd
120 AX	4	1		4	250W	7.5X18X25	$145	2nd
121	4	1		4	250W	8.5X18X18.5	$110	2nd
121AX	4	1		4	230W	8.5X18X18.5	$120	2nd
150	5	2	1	3	300W	7.5X16.5X24.3	$135	3rd
151	3	1	1	5	250W	8X16.3X15	$105	2nd
150 AX	3	2	1	3	300W	7.5X16.5X24.3	$155	3rd
151 AX	3	2		1	230W	8X16.3X17.7	$110	2nd
180	5	2		2	250W	7.5X16X24	$125	2nd
710	5	2	3		300W	8.7X17.8X27	$170	3rd
710 AX	5	2	3		300W	8.7X17.8X27	$205	3rd
720	10				300W	8.7X17.8X27	$180	3rd
720AX	10				300W	8.7X17.8X27	$205	3rd
920 AX	6	1		2	230W	7.5X17.5X24.5	$135	2nd
921AX	3	2		1	230W	7.5X17.5X19.5	$110	2nd
950AX	5	1		5	230W	7.9X17X23.6	$120	2nd
951AX	3	2		2	230W	8.7X16.8X15.7	$95	2nd
960AX	6	3		1	230W	7.5X16.5X24.5	$125	2nd
961AX	4	1	1	3	230W	8.7X16.4X18.5	$115	2nd
968AX	3	3		1	230W	7.5X16.5X24.5	$105	2nd
980AX	7	1	1	2	300W	8.3X17.3X26.5	$185	2nd
981AX	4	1	1	2	230W	8.3X17.3X21.3	$130	2nd
SC801	1				50W	9X11X2.6	$70	
SC802	2				80W	9X11.4X4.3	$85	
SC804	3				230W	6.8X15.3X9.3	$125	2nd
SC807	7				230W	7X15.8X13	$215	2nd
SC808	8				250W	8.4X20.2X18.3	$265	2nd

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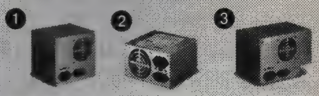

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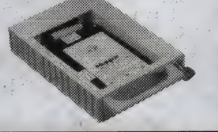

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SPOT INNOSCAN DYNOTAK-6P SCANNER

Low-Cost Scanning Package

Spot InnoScan's new scanner is inexpensive and includes a wide range of bundled software.

BY MATTHEW KLARE

The DynoTak-6P is Spot InnoScan's latest entry-level, 30-bit flatbed scanner. The DynoTak-6P has an optical resolution of 300x600 dpi and a maximum interpolated resolution of 4,800x4,800 dpi. Its low estimated price of $149 puts it in competition with the likes of Microtek Lab's ScanMaker E3 Plus and the Umax Astra 610P for SOHO and entry-level buyers.

Like Options by IBM's Color Flatbed Scanner, the DynoTak-6P has a side-hinged lid. Because you can raise the lid about 2 vertical inches, the scanner can accommodate fairly thick originals. If that isn't enough wiggle room, you can remove the lid completely to permit the scanning of very thick or wide objects. With the addition of about an inch of space to prevent its integral parallel cable from being crimped, the unit takes up only about 11x17 inches of desktop real estate.

Spot InnoScan DynoTak-6P Scanner

Spot InnoScan
2400 S. Garnsey St.
Santa Ana, CA 92707
714-434-6742
www.spotinc.com
Support: Live, toll-free phone support, 8 a.m. to 8 p.m. weekdays (PT); one-year parts-and-labor warranty
Requires: 70MB hard drive space; parallel port; Windows 95 or Windows NT
Mfr. Est. Price: $149

On the front of the DynoTak-6P are two large buttons labeled Select and Option, which offer speedy access to its scanning software.

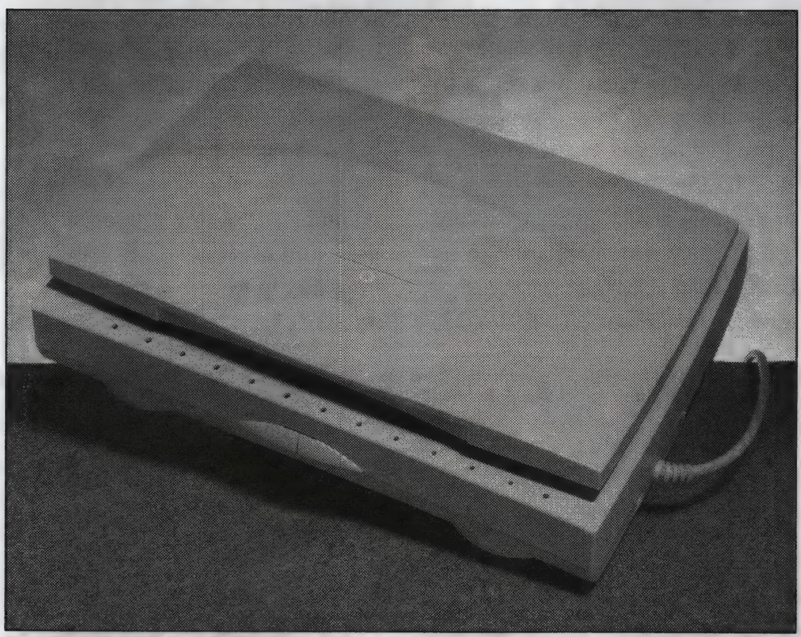
You won't find an on/off switch on the DynoTak-6P, but since it has low power consumption, one is not really needed. Because its parallel data cable will occupy your PC's parallel port, the DynoTak-6P has a pass-through connector on the side of the scanner that serves as a printer connection.

We hit several problems while setting up the scanner. First, we found that thin originals tended to slide under the ill-fitting plastic frame bordering the glass scan bed, making it difficult to align them squarely for scanning. This gap under the frame also caused us to tear several originals inadvertently as we attempted to disentangle them from this trap. And when we installed ScanOffix and the other bundled software from the CD-ROM, it set our Matrox Millennium's display resolution to 800x600. Once we had reset the display properties, this problem never recurred.

TouchScan, one of the other applications supplied with the DynoTak-6P, is supposed to offer a quick way to set print size, scan resolution, and scan mode (color, black and white, and so on) without opening the TWAIN interface. TouchScan is also supposed to allow you to set up and perform your scan with very few actions. The program loads each time Windows is started, and is intended to remain unobtrusive until it is summoned by pushing a button on the scanner or by a mouse-click command. However, we had major problems with it—the software persistently remained onscreen, and on top of everything else. Every time we shut it down, TouchScan spawned another session of itself, and when we tried to initiate a scanning session with TouchScan, it locked up the PC. A call to Spot InnoScan's free technical support informed us that the company was aware of the problem and was working on a software fix, which should be in place by the time you read this.

Once we had removed TouchScan from our Windows 95 Startup group, we were able to operate the rest of the DynoTak-6P's software with ease. ScanOffix, the scanner's desktop metaphor program, found pertinent applications—word processing, image editing, fax, and e-mail—on our hard drive and placed an icon for each one on its menu bar. The prominence of the icons makes it simple to drag and drop thumbnails of your scans, triggering those applications. ScanOffix is convenient to operate and easy to learn; the program's help feature is excellent.

The embedded OmniPage OCR engine in ScanOffix generally gave us good results when we scanned and dropped documents into Microsoft Word 7.0. We had a few OCR problems with originals that were printed in a thin 12-point Times Roman typeface; however, originals whose characters were thicker gave significantly better results.


The DynoTak-6P has a side-hinged lid that can be raised up about two vertical inches to accommodate thick originals.

In addition to ScanOffix and TouchScan, the DynoTak-6P's software bundle includes LivePix 1.1, Kai's Power Goo, and a trial version of Live Picture's PhotoVista. LivePix provides the basic tools for editing your scans, especially photos. Power Goo offers some entertaining distortions and other bizarre photographic effects; PhotoVista lets you create panoramas by combining several scanned images. The DynoTak-6P's TWAIN driver has a funky but accessible interface. It let us quickly select resolution and scan mode (color, gray scale, line art, and halftone). The interface also afforded control over scans' brightness/contrast, gamma, and other more sophisticated parameters.

We connected the DynoTak-6P to the parallel port of a 166MHz Pentium with 32MB of RAM that was running Windows 95 OEM Service Release 2.0. It took the DynoTak-6P about 18 seconds to perform its single-pass scan of a 4x5-inch color photograph at 300 dpi. Scanning a 5x7-inch black-and-white photograph at 300 dpi took about 13 seconds. Scanning a full page of text using the 1-bit (black-and-white) setting took 25 seconds.

We found that fine, vertical lines appeared wavy when scanned at 300 dpi and even at 600 dpi. In general, the DynoTak-6P fared better with black-and-white photos, color photos, and halftones. In 10-bit gray-scale mode, the DynoTak-6P yielded a good tonal range that included a dense black. Likewise, in 30-bit mode, it performed well, giving fairly true colors with good shadow and highlight details.

With the plethora of inexpensive scanners on the market, it's tough to recommend the DynoTak-6P. It performed well when scanning snapshots, but its performance with fine detail was not up to snuff. Additionally, its construction seemed on the flimsy side. Although $149 is a great price for a scanner, you could probably find a better deal. ▼

MINDWIZARD 3.0

Inexpensive Expert System Creation

This low-cost modeling program helps developers build expert systems and simulation models.

BY JOHN GLIEDMAN

Windows Richter Paradigm Corp.'s MindWizard 3.0 violates the old adage that you get what you pay for. At $149, MindWizard is by far the least expensive expert-system program available that provides full support for OLE Automation. Using MindWizard, developers and programmers can easily build compact expert systems ranging from simpler models that incorporate their business-decision rules to highly sophisticated models. The latter can include the rules that a bank uses to determine eligibility for a mortgage, complex shape identification programs that use fuzzy logic, or stock-market forecasting systems that incorporate Bayesian probability. And thanks to OLE Automation support, MindWizard models can process the data from a Microsoft Access or Excel form, return the results of this processing (size, interest rate, type of mortgage approved) to the OLE client application, and display it in numerous forms.

MindWizard 3.0

Richter Paradigm Corp.
150 Almaden Blvd., Ste. 750
San Jose, CA 95113
888-366-4269; 408-278-0360
Fax: 408-278-0366
www.mindwizard.com
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Requires: P200 or faster recommended; 32MB RAM recommended; 15MB hard drive space; Windows 95 or Windows NT 4.0 or later
List Price: $149

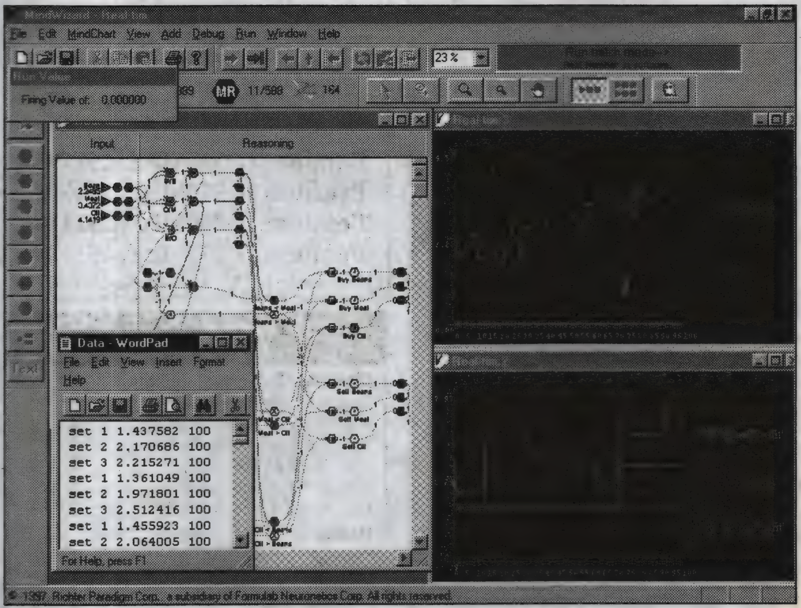
Despite the program's developer orientation, the first steps of building a simple model in MindWizard are straightforward, if somewhat burdened by MindWizard's unfamiliar interface. The interface doesn't conform with any Windows 95 or Microsoft Office design, nor does it make it obvious where to start. What you see when you first open the program is the Development mode, where you begin a process similar to drawing a flowchart in any flowchart modeling program. Just as in other modeling packages, you add new symbols to the workspace by clicking on the appropriate object, and then clicking wherever you want to place the element. MindWizard lets you add symbols for inputs and outputs as well as cells that add, multiply, or divide data they receive from other cells in the model. You can also add 35 math functions from a scrollable pick list when the Adding Function Objects dialog displays. The program provides support for logic cells and submodels as well. And defining the flow of data, by connecting any two elements with a line, is accomplished by selecting an input or reasoning cell and dragging the mouse to the reasoning or output cell that receives the data.

MindWizard's neural network terminology takes some getting used to as well; MindWizard uses terms like "Threshold Potential Stimulus" to describe actions that cause an element in its flowchart-like network to switch on.

As in a flowchart-based simulation program, it is generally recommended that you first create a model on paper by drawing a flowchart that incorporates the decision process you seek to model. You then translate the paper flowchart into a working model by creating a copy of it in MindWizard's model-building workspace, where each node in the MindWizard flowchart performs the function designated in the paper flowchart, and where the lines connecting nodes define the flow of data through the model.

The key to creating a MindWizard model, however, is figuring out how to supply the model with data. This is because MindWizard expects to receive data from the outside world via OLE Automation or batch files containing special codes (Richter Paradigm says that future releases will also support TCP/IP input and output for Internet/intranet use). You can also supply a model with data by typing it in from the keyboard, but this process is too slow and inefficient to be useful for more than demonstration, instructional, or debugging purposes.

Once you have defined the rules and relationships within a MindWizard model, the product's similarities with standard flowchart-like simulation programs melt away. Simulation programs such as the $700 Micrografx Optima 2.5 provide you with a rich array of tools for generating imaginary real-world data and help you experiment with ways of improving an existing business and manufacturing processes, seeing what efficiency gains occur (if any) when you change the model and probing your processes' ability to cope with real-world contingencies. MindWizard, however, lacks built-in tools for simplifying OLE Automation and batch-file creation (let alone generating data suitable for running simulations).



```
set 1 1.437582 100
set 2 2.170686 100
set 3 2.215271 100
set 1 1.361049 100
set 2 1.971801 100
set 3 2.512416 100
set 1 1.455923 100
set 2 2.064005 100
```

Advanced users can use batch files to simulate real-world events affecting process modeling outcomes in MindWizard.

This places an extra burden on the documentation—and sadly, MindWizard's documentation doesn't rise to the challenge. The manual and online help's discussion of input/output topics presupposes considerable familiarity with OLE Automation and MindWizard's special batch-file language. The rest of MindWizard's documentation is often inaccurate or incomplete (the online help has a number of errors and omissions); the documentation seems geared to the needs of programmers, and to the rare power user blessed with the leisure time to learn a complex program by taking apart sample applications created in the product and studying them in detail. Power users short on time would benefit greatly from the kind of fine documentation that High Performance Systems provides for its $599 iThink 5.0 and $1,099 iThink Analyst 5.0 (neither of these programs, however, supports OLE Automation).

Aside from its lack of solid documentation, MindWizard does its job of fulfilling the needs of expert-system developers. What it lacks, like better built-in support for exchanging data with Excel and more extensive support for other OLE-compliant applications, Richter Paradigm intends to add with a forthcoming, more expensive version. Meantime, MindWizard 3.0's greatest strength remains expert systems. Therefore, it can be strongly recommended to companies that are willing to spend time and money on developers, or to individual Excel power users. ▼

SECTION CONTINUES ON PAGE 414

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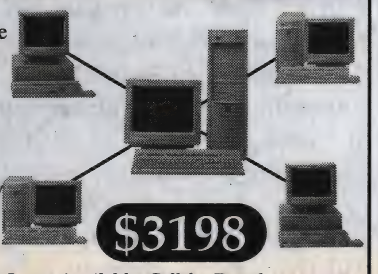

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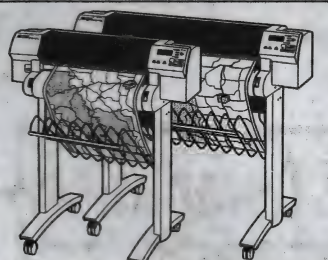

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447X	17" 1600X1200 .25	$649
446X Pro	19" 1600X1200 .22	$1,015
445X Pro	21" 1800X1440 .22	$1,549

ViewSonic

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PT775	17" 1600X1200 .25	$695
P810	21" 1600X1200 .25	$1,150
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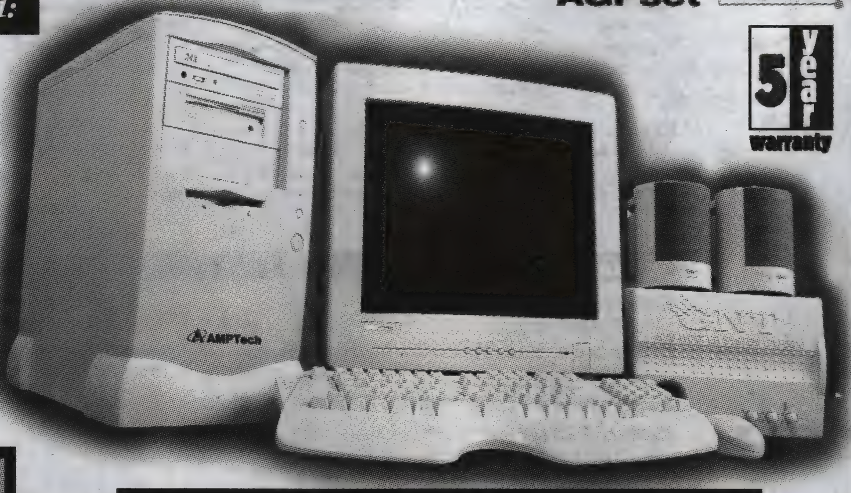

ampsonic II

- 233MHz Intel Pentium II® Processor
- Intel® 440LX AGPset w/2USB Ports
- 512k L2 Cache
- 32MB SDRAM memory (10ns)
- 2.5 GB Ultra ATA HDD (10ms)
- 4MB AGP Video
- 14" SVGA Monitor .28 Dot Pitch
- 33.6K Fax-Modem-Voice-Full Duplex
- 3D 16-Bit Sound Card
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- PS2 Mouse, 104 Key Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
- 5 Yr Warranty
- 1 Year On-Site Service

$979

Pentium II 266	$1049
Pentium II 300	$1179
Pentium II 333	$1329

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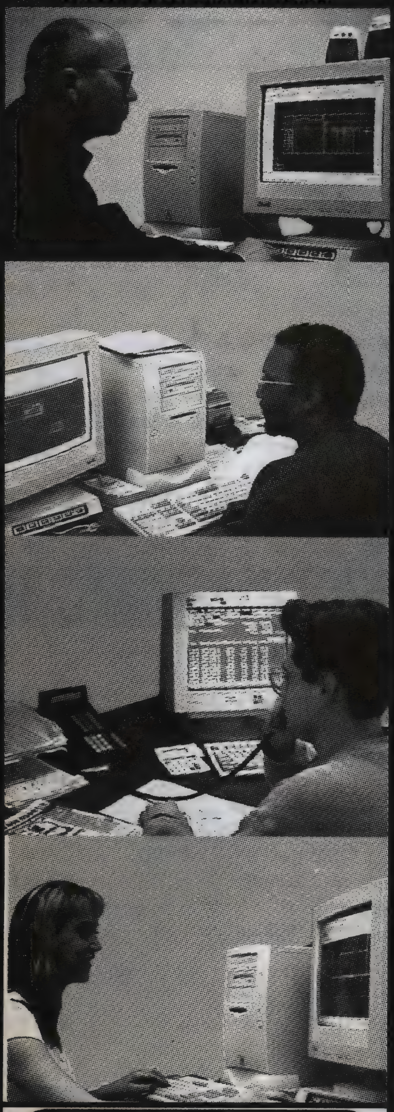

ampsonic tower series

ampsonic II BX+

new!

- **233MHz** Intel Pentium II® Processor
- Intel® **440BX** AGPSet w/ 2 USB Ports
- 512k L2 Cache
- **64MB** SDRAM memory (10ns)
- **8.0GB** Ultra ATA HDD (<10ms)
- ATi Xpert XL 3D **4MB AGP**
- **17"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- Built-in **FM** Stereo Tuner, Microphone
- 3D PCI EnsonicWavetable Stereo Card
- **Second generation DVD Drive**
- Premium Sound System w/ **Sub-Woofer**
- 3.5" Floppy Drive • MS IntelliMouse
- Microsoft Elite Natural Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
- 5 Yr Warranty, 1 Year On-Site Service

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Pentium II 266	$1739
Pentium II 300	$1849
Pentium II 333	$1999
Pentium II 350	$2149
Pentium II 400	$2349

ampsonic II BX

new!

- **233MHz** Intel Pentium II® Processor
- Intel® **440BX** AGPSet w/ 2 USB Ports
- 512k L2 Cache
- **64MB** SDRAM memory (10ns)
- **6.4GB** Ultra ATA HDD (<10ms)
- ATi Xpert XL 3D **4MB AGP**
- **17"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- Built-in **FM** Stereo Tuner, Microphone
- 3D PCI EnsonicWavetable Stereo Card
- **36X** Max EIDE CD-ROM
- Premium Sound System w/ **Sub-Woofer**
- 3.5" Floppy Drive PS2 Mouse
- 104 Key Ergonomic PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
- 5 Yr Warranty, 1 Year On-Site Service

$1499 Business Lease **$79***

Pentium II 266	$1599
Pentium II 300	$1699
Pentium II 333	$1849
Pentium II 350	$1999
Pentium II 400	$2199

ampsonic II +

- **233MHz** Intel Pentium II® Processor
- Intel® **440LX** AGPset w/ 2 USB Ports
- 512k L2 Cache
- **64MB** SDRAM memory (10ns)
- **6.4GB** Ultra ATA HDD (<10ms)
- Matrox Productiva 3D **4MB AGP**
- **17"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- Built-in **FM** Stereo Tuner, Microphone
- 3D PCI EnsonicWavetable Stereo Card
- **36X** Max EIDE CD-ROM
- Premium Sound System w/ **Sub-Woofer**
- 3.5" Floppy Drive PS2 Mouse
- 104 Key Ergonomic PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
- 5 Yr Warranty, 1 Year On-Site Service

$1399 Business Lease **$69***

Pentium II 266	$1499
Pentium II 300	$1599
Pentium II 333	$1749

ampsonic II E

- **233MHz** Intel Pentium II® Processor
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- 512k L2 Cache
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- Matrox Productiva **4MB AGP** Video
- **17"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- **TV** Tuner-Video Capture-Remote Control
- Built-in **FM** Stereo Tuner, Microphone
- 3D PCI EnsonicWavetable Stereo Card
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- Premium Sound System w/ **Sub-Woofer**
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- 104 Key Ergonomic PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD • Lotus SmartSuite 97
- Premier Software Package w/700 Titles
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Pentium II 266	$1479
Pentium II 300	$1579
Pentium II 333	$1739

ampsonic II S

- **233MHz** Intel Pentium II® Processor
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- 512k L2 Cache
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- **6.4GB** Ultra ATA HDD (10ms)
- **4MB AGP** Video
- **15"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- 3D 16-Bit Yamaha Sound Card
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- PS2 Mouse,
- 104 Key PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD • Lotus SmartSuite 97
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$1129 Business Lease **$65***

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Pentium II 300	$1329
Pentium II 333	$1469

ampsonic II SE

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- 512k L2 Cache
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- **4.3GB** Ultra ATA HDD (10ms)
- **4MB AGP** Video
- **15"** SVGA Monitor .28 Dot Pitch
- **33.6K** Fax-Modem-Voice-Full Duplex
- 3D 16-Bit Yamaha Sound Card
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- PS2 Mouse,
- 104 Key PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
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- Premium Sound System
- 3.5" Floppy Drive
- 104 Key Keyboard & Mouse
- Mini-Tower or Desktop Case
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- **15"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- Built-in **FM** Stereo Tuner, Microphone
- 3D 16-Bit Yamaha Sound Card
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- 104 Key Ergonomic Keyboard & Mouse
- Mid-Tower or Desktop Case
- Windows 95 on CD
- Lotus SmartSuite 97
- Premier Software Package w/700 Titles
- 5 Yr Warranty,
- 1 Year On-Site Service

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P5-233MMX	$949

ampsonic pr5E

- **200MHz** Intel Pentium® CPU w/MMX ™
- Intel® **430TX** Chipset
- 512k PLB Cache
- **32MB** Fast EDO Memory
- Enhanced IDE Controller
- **4.3GB** Enhanced IDE HDD
- S3 ViRGE DX 2MB 3D Video
- **14"** SVGA Monitor .28 Dot Pitch
- **33.6K** Fax-Modem-Voice-Full Duplex
- 3D 16-Bit Yamaha Sound Card
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- 104 Key Keyboard & Mouse
- Mid-Tower or Desktop Case
- Windows 95 on CD
- Lotus SmartSuite 97
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- 5 Yr Warranty,
- 1 Year On-Site Service

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- **4.3 GB Ultra Wide SCSI** Hard Drive
- 7200 RPM 8 ms
- Intel **EtherExpress 100B** Network Adapter
- Built-in Video
- 24x Max SCSI CD ROM Drive
- Intel LANDesk® Server Manager Software
- Full Tower ATX Case
- 104 Key Keyboard and PS2 Mouse
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Pentium II 266 MHz	$1359
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- **32MB** SDRAM memory (10ns)
- **4.3GB** Ultra ATA HDD (<10ms)
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- 3D PCI EnsonicWavetable Stereo Card
- 24X Max EIDE CD-ROM
- Premium Sound System
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- 104 Key Ergonomic Keyboard & Mouse
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K6-233MHz	$929
K6-266MHz	$1019

ampsonic CMX 200

- Cyrix 6x86MX™ PR-**200MHz**CPU
- Intel® **430TX** Chipset
- 512k PLB Cache
- **32MB** Fast EDO Memory
- **4.3GB** Enhanced IDE HDD
- S3 ViRGE DX **2Mb** 3D Video
- **15"** SVGA Monitor .28 Dot Pitch
- 33.6K Fax-Modem-Voice
- Yamaha 3D Stereo Sound
- 24X Max EIDE CD-ROM
- Premium Sound System
- 3.5" Floppy Drive
- 104 Key Ergonomic Keyboard & Mouse
- Mid-Tower or Desktop Case
- Windows 95 on CD
- Lotus SmartSuite 97
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6x86MX™PR-233MHz	$849
6x86MX™PR-266MHz	$1099

OfficeHost

- **Asus P2L 97S** Motherboard
- **233MHz** Pentium II
- **64 MB** SDRAM
- Built-in Adaptec 7880 Ultra-wide SCSI Controller
- **4.3 GB** Ultra wide HD
- 7200 RPM 8 ms
- Intel **EtherExpress Pro100** Network Adapter
- PCI Video Adapter
- 24x Max EIDEI CD ROM Drive
- Intel LANDesk® Server Manager Software
- Full Tower ATX Case
- 104 Key Keyboard and PS2 Mouse
- **1 Year** Next Business Day On-Site Service

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Pentium II 266MHz	$1129
Pentium II 300MHz	$1239
Pentium II 333MHz	$1399

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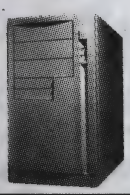
- **AGP 4MB Video**
- 1.44MB Floppy Drive
- **100MHz** or 66/60 Operating
- Assembled and Tested

$679



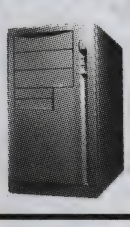
Pentium® II 233MHz	$679
Pentium® II 266MHz	$769
Pentium® II 300MHz	$899
Pentium® II 333MHz	$1039
Pentium® II 350MHz	$1179
Pentium® II 400MHz	$1389

Pentium II LX AGP Kit

AGP

- ATX Mid-Tower Case
- **32MB** SDRAM
- INTEL® **440LX AGPset** Mainboard
- **AGP 4MB Video**
- 1.44MB Floppy Drive
- Assembled and Tested
- Upgrade To 64 MB SDRAM...$59

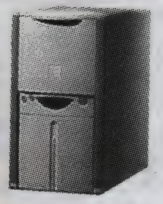
$499



Pentium® II 233MHz	$499
Pentium® II 266MHz	$589
Pentium® II 300MHz	$699
Pentium® II 333MHz	$869

i430TX Kit

3D



- 5 Bay Case
- **32MB** SDRAM
- 512K Cache
- 1.44 Floppy Drive
- Intel **430TX** Main Board
- S3 Virge DX 3D **4MB** Video
- Assembled and Tested

$269

Pentium	AMD	Cyrix
200MMX....$299	K6-200....$279	6x86MX200....$269
233MMX....$349	K6-233....$329	6x86MX233....$309
	K6-266....$419	6x86MX266....$389

Cyrix MX Advantage Kit

3D

- Cyrix Approved Mother Board
- AT 5 Bay Case
- **32MB** SDRAM Memory
- S3 ViRGE DX 3D 2MB Video
- 1.44MB Floppy Drive
- Assembled and Tested
- Upgrade to 4MB Video........$29
- Upgrade To 64MB SDRAM......$59

$279

Cyrix 6x86MX-PR200	$279
Cyrix 6x86MX-PR233	$309
Cyrix 6x86MX-PR266	$389

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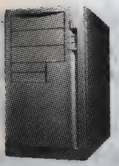
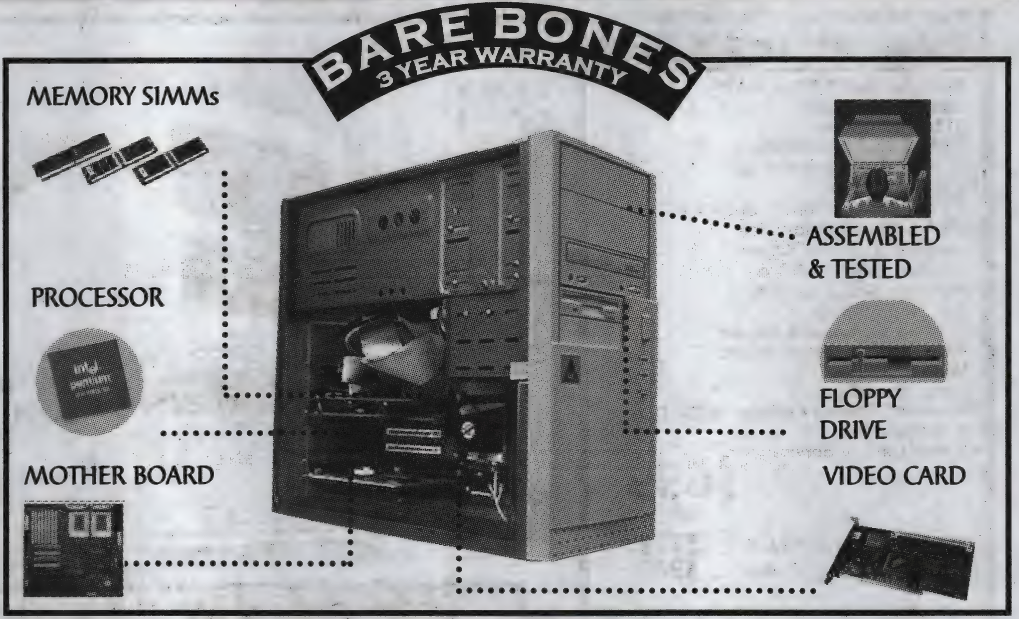


- **i430TX** Board w/ 512K Cache
- **32MB** SDRAM Memory
- **2.1GB** Enhanced IDE Hard Drive
- **24X** Max CD ROM
- S3 Virge DX 3D **2MB** Video
- 3.5 FDD / Midtower Case
- **Assembled and Tested**
- **Network Interface Card**

$469

Pentium	AMD	Cyrix
200MMX....$499	K6-200....$489	6x86MX200....$469
233MMX....$559	K6-233....$529	6x86MX233....$519
	K6-266....$619	6x86MX266....$599



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new! AGP

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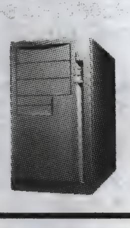
- **100MHz** or 66/60 operating
- 2 USB Ports
- Mid Tower ATX Case
- **64MB** SDRAM 10ns
- AGP **4MB** Video
- 1.44MB Floppy Drive
- **Network Interface Card**
- Assembled and Test

$749



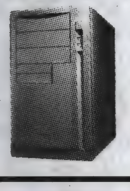
Intel Pentium® II 233MHz	$749
Intel Pentium® II 266MHz	$829
Intel Pentium® II 300MHz	$949
Intel Pentium® II 333MHz	$1099
Intel Pentium® II 350MHz	$1269
Intel Pentium® II 400MHz	$1469

Intel ® AL440LX Kit [Atlanta]

AGP

- Intel®**AL440LX** Mainboard
- 2 USB Ports
- Mid Tower ATX Case
- **32MB** SDRAM 10ns
- AGP **4MB** Video
- 1.44MB Floppy Drive
- **Network Interface Card**
- Assembled and Tested
- Upgrade To 64MB SDRAM....$59

$569



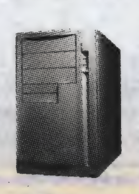
Intel Pentium® II 233MHz	$569
Intel Pentium® II 266MHz	$649
Intel Pentium® II 300MHz	$769
Intel Pentium® II 333MHz	$919

Intel ® AN430TX Kit [Anchorage]

YAMAHA 3D

- Intel®**AN430TX** Mainboard
  Yamaha OPL3 Built-in
- 2 USB Ports
- Mid Tower ATX Case
- **32MB** SDRAM 10ns
- S3 ViRGE DX 3D **4MB** SVGA
- 1.44MB Floppy Drive
- **Network Interface Card**
- Assembled and Tested
- Upgrade To 64MB SDRAM....$69
- Upgrade To Yamaha OPL4 & ATI Rage 2MB SGRAM........$59

$439



Intel Pentium® 200MMX	$439
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P2 scsi pro

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Intel Pentium® II 233MHz	$779
Intel Pentium® II 266MHz	$849
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8 Port 10/100 Hub	$189
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Chassis

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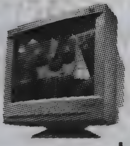

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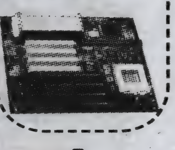

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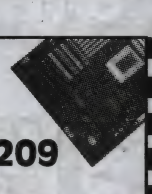

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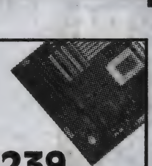

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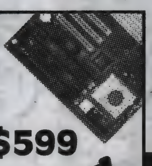

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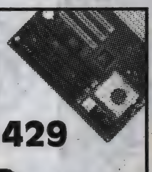

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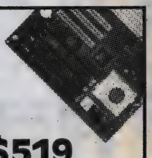

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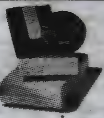

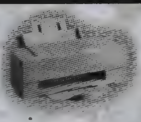

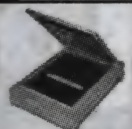

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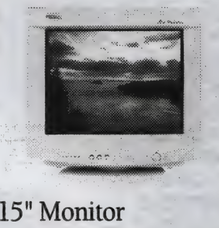

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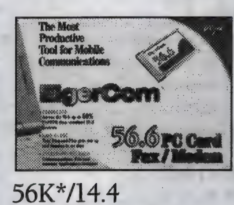

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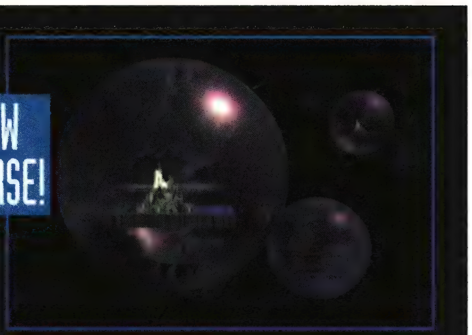

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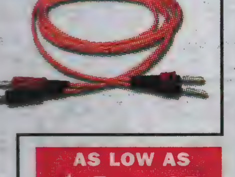

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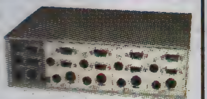

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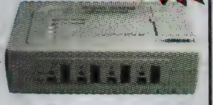

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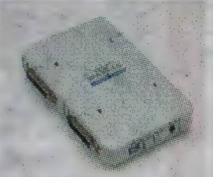

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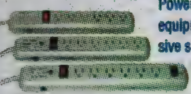

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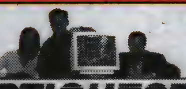

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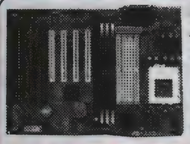

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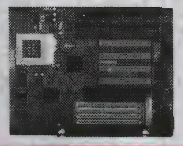

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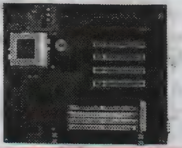

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6x86MX PR200+	$169
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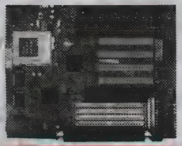

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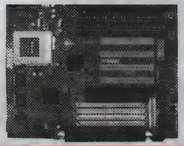
P55, Intel 430 TX PCI Chipset, 512K Pipeline Burst Cache, 4PCI/3ISA, 4/72-Pin SIMM & 2 SDRAM Sockets, Award Bios, AT Form Factor.

(also available in ATX style...$119)

With No CPU	$99
With Intel Pentium Processor	
P5MMX-166Mhz	$219
P5MMX-200Mhz	$239
P5MMX-233Mhz	$299
With AMD Processor	
K6 PR-166/200	$219/$239
K6 PR-233/266	$269/CALL
With Cyrix Processor	
6x86MX PR166+	$199
6x86MX PR200+	$215
6x86MX PR233+	$269



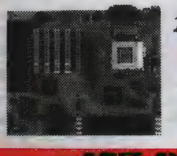
ASUS $125 Intel 430TX Chipset

ASUS TX97E

P55, Intel 430 TX PCI Chipset, 512K Pipeline Burst Cache, 4PCI/4ISA, 4/72-Pin SIMM & 2 SDRAM Sockets, Award Bios, AT Form Factor, ASUS Media Slot.

(also available in ATX style...$139)

With No CPU	$125
With Intel Pentium Processor	
P5MMX-166Mhz	$249
P5MMX-200Mhz	$269
P5MMX-233Mhz	$329
With AMD Processor	
K6 PR-166/200	$249/$269
K6 PR-233/266	$299/CALL
With Cyrix Processor	
6x86MX PR166+	$229
6x86MX PR200+	$239
6x86MX PR233+	$299

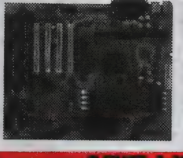


ABIT $129 VIA Apollo VP3 Chipset

ABIT AV5

P55, Jumperless CPU settings w/Soft Menu, VIA Apollo VP3 AGP Chipset, 1MB Pipeline Burst Cache, 5PCI/3ISA/1AGP, 4-SDRAM Sockets, Award Bios, ATX Form Factor.

With No CPU	$129
With Intel Pentium Processor	
P5MMX-166Mhz	$269
P5MMX-200Mhz	$299
P5MMX-233Mhz	$369
With AMD Processor	
K6 PR-166/200	$269/$319
K6 PR-233/266	$329/CALL
With Cyrix Processor	
6x86MX PR166+	$219
6x86MX PR200+	$229
6x86MX PR233+	$289



ABIT $135 Intel 440LX Chipset

ABIT LX6

PII, Jumperless CPU settings w/Soft Menu, Intel 440 LX AGP Chipset, 4PCI/3ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2.

With No CPU	$135
With Intel Pentium II Processor	
PII 233Mhz MMX CPU	$425
PII 266Mhz MMX CPU	$529
PII 300Mhz MMX CPU	$669
PII 333Mhz MMX CPU	$899

Tekram $119 Intel 440LX Chipset

TEKRAM P6L40K-A4

PII, Intel 440 LX PCI Chipset, 5PCI/2ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2.

With No CPU	$119
With Intel Pentium II Processor	
PII 233Mhz MMX CPU	$419
PII 266Mhz MMX CPU	$519
PII 300Mhz MMX CPU	$659

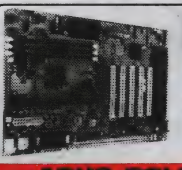
ASUS $159 Intel 440LX Chipset

ASUS P2L97

PII, Intel 440 LX PCI Chipset, 5PCI/2ISA/1AGP, 3 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2.

(also available P2L97-S w/Ultra SCSI...$249)

With No CPU	$159
With Intel Pentium II Processor	
PII 233Mhz MMX CPU	$449
PII 266Mhz MMX CPU	$549
PII 300Mhz MMX CPU	$679
PII 333Mhz MMX CPU	$909



ASUS $339 Intel 440LX Chipset

ASUS P2L97-D

Dual PII, Intel 440 LX PCI Chipset, 5PCI/2ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2, supports Dual PII Processors.

(also available P2L97-DS w/Ultra SCSI...$399)

With No CPU	$339
With Intel Pentium II Processor	
PII 233Mhz MMX CPU	$609
PII 266Mhz MMX CPU	$719
PII 300Mhz MMX CPU	$859
With Dual Intel Pentium II Processors	
w/2 of PII 233Mhz MMX CPU's	$939
w/2 of PII 266Mhz MMX CPU's	$1159
w/2 of PII 300Mhz MMX CPU's	$1499

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Enterprise 9.1GB SCSI/Wide	$799

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- TV Tuner/Video Capture
- 56K Fax/Voice
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- Ensoniq PCI Sound Card
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- Lotus Smartsuite '97
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- 56K Fax/Voice
- Toshiba 32X CD-ROM
- Ensoniq PCI Sound Card
- 104 Keyboard & Mouse
- MS-Windows '95
- Lotus Smartsuite '97
- Subwoofer w/2 Speakers
- 5 Year Warranty on Parts
- 1 Year Warranty on Labor

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INTEL PII-266	$1299
INTEL PII-300	$1399
INTEL PII-333	$1649

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- 64-Bit ATI Xpert XL 4MB 3D AGP Video
- 56K Fax/Voice
- Toshiba 32X CD-ROM
- Ensoniq PCI Sound Card
- 104 Keyboard & Mouse
- MS-Windows '95
- Lotus Smartsuite '97
- Subwoofer w/2 Speakers
- 5 Year Warranty on Parts
- 1 Year Warranty on Labor

INTEL P5-233 MMX	$1099
AMD K6-233 MMX	$1059
CYRIX MX-233	$999

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- MS-Windows '95
- Lotus Smartsuite '97
- 60 Watt Speakers
- 5 Year Warranty on Parts
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INTEL P5-200 MMX	$899
INTEL P5-233 MMX	$989
AMD K6-233	$949

Optiquest 19" .26 NI Monitor	$699
30 Bit Flatbed Color Scanner	$89
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Iomega 100MB Zip Drive w/Media	$89

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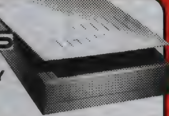

Scanners

24-Bit Color, SCSI-II SCSI-II, 4800dpi, single pass, 24 bit color, flatbed, OCR & image editing software included.	$105
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PII-233/266 w/MMX	$299/$389
PII-300 w/MMX	$529
PII-333 w/MMX	$749
AMD	
K6-166/200 w/MMX	$119/$139
K6-233/266 w/MMX	$169/Call
CYRIX	
M2-166/200 w/MMX	$85/$95
M2-233 w/MMX	$139
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6. 1x5.25" 2x3.5" drive bay/8 slots
7. W.D.H. 15.7" x 7.7" x 11.7", 18lbs

PC7: PORTABLE

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2. Baby AT or ATX size form factor
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4. 2MB VGA card (4MB for 12.1" TFT)
5. Optional battery pack for field operation
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2) Intel 430TX Chipset 512k Motherboard
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4) TOSHIBA 32X CD-ROM & WIN 95 CD
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PC1-S PC2-S PC7-S PT II 266MHz Add $318

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FOR ATX MOTHERBOARD

ATX SIZE(20 pin x 1)
230 - 400W
(6 x 5½ x 3⅜)

FOR AT MOTHERBOARD

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230 - 400W
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ATT SIZE
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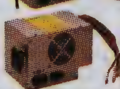
AT SIZE
230 - 600W
(8⅜ x 6 x 5⅞)



PRICE	SS	ATX	AT & ATT
230W	$40	$50	$45
250W	48	55	55
300W	65	75	76
350W	N/A	120	N/A
400W	165	185	160
500W	N/A	N/A	240
600W	N/A	N/A	310

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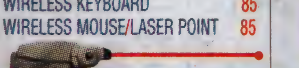
WIRELESS KEYBOARD	85
WIRELESS MOUSE/LASER POINT	85



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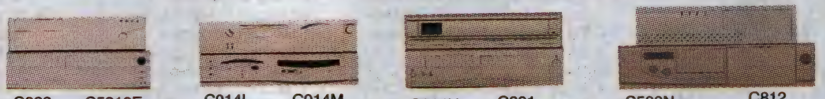
C033
C5210E
C014L
C014M
C014U
C601
C500N
C812

Model	Case Price	Dimension W.D.H(inch)	5.25" Ext./Int.	3.5" Ext./Int.	Slot PCI / ISA	LPX/ AT All in one MB PORT	Power Supply
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C5201E BareBone	$270	12.5x14.3x3.4	1/0	1/1	1PCI 1ISA	1xVGA, 1P.2S, PS2 MS & KeyB Line in. Mic. Spk. Lan. 2USB	100 Watt
C014L/U	$90	13.7x14.9x3	0/0	2/0	1PCI 1ISA or 2PCI	1xVGA, 1P.2S, PS2 MS & KeyB	100 Watt
C014M	$90	13.8x15x3	1/0	1/0	1PCI 1ISA or 2PCI	1xVGA, 1P.2S, PS2 MS & KeyB	100 Watt
C601	$90	13.7x16.7x3.35	1/0	1/1	2PCI 1ISA	1xVGA, 1P.2S, PS2 MS & KeyB	150 Watt
C500N	$90	14.1x16.6x3.6	1/0	1/1	1PCI 1ISA or 2PCI	1xVGA, 1P.2S, PS2 MS & KeyB	100 Watt
C812	$95	17.1x16.1x4.1	2/0	1/1	2PCI 1ISA/2ISA 1PCI	1xVGA, 1P.2S, PS2 MS & KeyB	250 Watt

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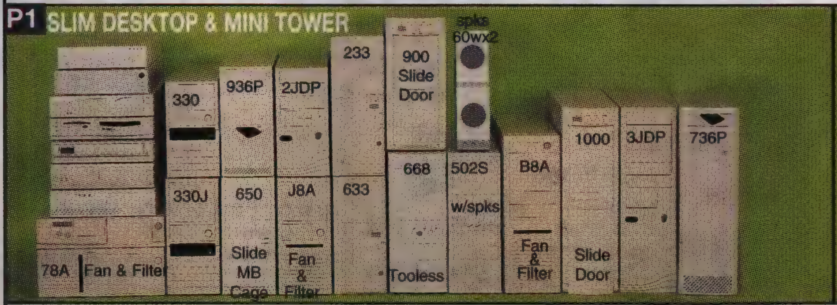
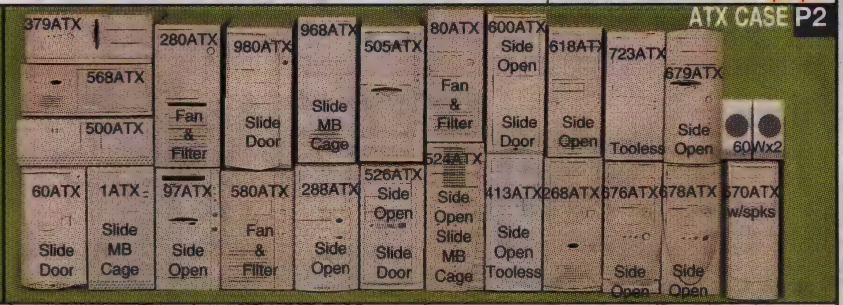
A- 3, 5, 6, 7.5, 9V
B- 3, 6, 7.5, 12, 15V
C- 3, 5, 9, 12, 15, 24V

- 250W ATX/AT SS size (6 x 5 1/2 x 3 3/8)
- Energy saving >75% • Patent protected
- UL, CSA, TUV, CE, FCC approved
- One Ext DC cable set included. • $85/$75

P1 SLIM DESKTOP & MINI TOWER

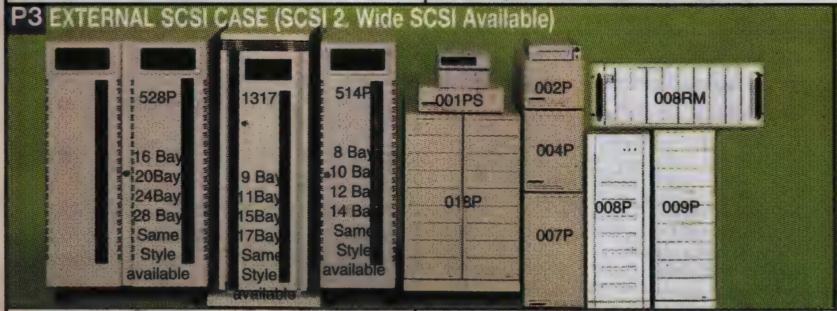

233
900 Slide Door
spks 60wx2
330
936P
2JDP
1000
3JDP
736P
668
502S w/spks
B8A
330J
650
J8A
633
78A
Fan & Filter
Slide MB Cage
Fan & Filter
Tooless
Fan & Filter
Slide Door

ATX CASE P2

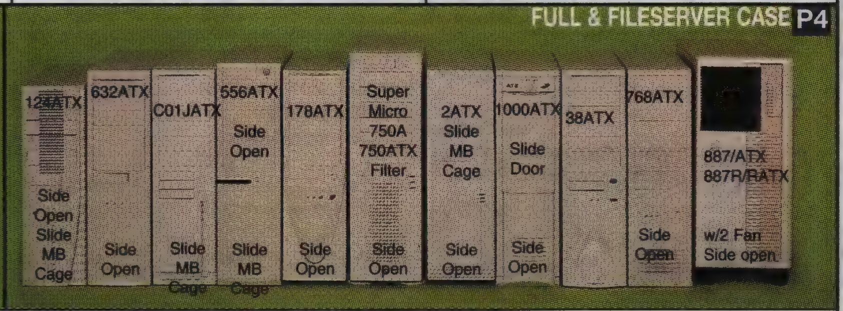

379ATX
280ATX
980ATX
968ATX
505ATX
80ATX
600ATX Side Open
618ATX
723ATX
679ATX
568ATX
500ATX
Fan & Filter
Slide Door
Slide MB Cage
Fan & Filter
Side Open
Side Open
Tooless
Side Open
60Wx2
524ATX
60ATX Slide Door
1ATX Slide MB Cage
97ATX Side Open
580ATX Fan & Filter
288ATX Side Open
526ATX Side Open Slide Door
Side Open Slide MB Cage
413ATX Side Open Tooless
268ATX
676ATX
678ATX
570ATX w/spks
Side Open
Side Open

Model	Price	Dimension W.D.H.	MB Size	5.25 Ext./Int.	3.5 Ext./Int.	Watt P.S.
P1. SLIM DESK TOP & AT TOWER						
78A	$86	16.9x16.3x6.2	B	3/0	2/2	250
330	$85	7.1x16.3x13	B	3/2	2/3	250
330J	$95	7.1x16.3x15	B	3/0	2/3	250
936P	$85	7.1x16.3x14.8	B	3/0	2/2	230
650	$92	7.1x16.6x15	B	3/0	2/3	300
2JDP	$62	7.1x16.1x15	B	3/0	2/2	230
J8A	$100	7.1x16.3x15.2	B	3/0	2/3	250
233	$105	7.1x16.7x19.7	B	4/0	2/3	250
633	$85	7.1x16.7x15.2	B	3/0	2/3	230
900	$100	7.9x16.2x17.7	B	3/1	1/5	250
668	$105	7.8x16.9x18.3	B	4/0	1/4	250
502S	$95	7.1x16.7x18.7	B	3/0	2/3	250
		(with 60Wx2 speakers)				
B8A	$110	7.5x16.4x20.7	B	5/0	2/5	250
1000	$125	7.5x16.5x24.5	B/F	5/1	2/6	250
3JDP	$96	7.5x16.3x24.5	B/F	6/0	2/3	250
736P	$105	8.1x16.3x24.8	B/F	5/1	2/1	250
P2. ATX CASE						
379ATX	$90	16.6x16.6x6.4	ATX	3/0	1/2	230
568ATX	$99	6.5x16.6x6.8	ATX	3/0	2/1	230
500ATX	$95	17.5x18x6.3	ATX	2/1	2/1	230
60ATX	$95	8.5x19.7x15.6	ATX	3/0	1/2	230
1ATX	$105	8.7x16.8x15.7	ATX	3/0	2/2	300
280ATX	$120	8.5x17.9x18.5	ATX	4/0	2/3	250
97ATX	$105	8.3x17x15.5	ATX	3/0	1/3	230
980ATX	$109	8.5x17.3x18.5	ATX	4/0	1/4	250
580ATX	$105	9.5x16.5x15	ATX	3/0	2/1	230
968ATX	$92	7.5x16.8x19.3	ATX	3/0	3/1	230
288ATX	$80	8.3x17x16	ATX	3/0	2/1	250
505ATX	$99	8.3x16.3x17.6	ATX	4/0	1/3	250
526ATX	$90	8.3x17x16	ATX	3/0	2/1	250
80ATX	$120	7.3x16.5x17.1	ATX	3/0	2/4	250
524ATX	$105	7.5x16.7x18.8	ATX	3/0	2/4	250
600ATX	$109	7.5x17.4x18.3	ATX	3/0	2/2	250
413ATX	$95	7.3x16.6x17.5	ATX	3/0	2/2	250
618ATX	$85	7x16.8x17	ATX	3/0	2/1	250
268ATX	$95	7.6x16.7x17	ATX	3/0	2/2	250
723ATX	$110	7.4x18.4x16.9	ATX	3/1	2/1	250
676ATX	$90	7.5x16.5x16.6	ATX	3/0	2/1	250
679ATX	$90	7.8x17x16.5	ATX	3/0	2/1	250
678ATX	$90	7.5x17.6x16.7	ATX	3/0	2/1	250
570ATX	$95	7.1x17.2x18.7	ATX	3/0	2/3	250

P3 EXTERNAL SCSI CASE (SCSI 2. Wide SCSI Available)


528P
16 Bay
20Bay
24Bay
28 Bay
Same Style available
1317R
9 Bay
11Bay
15Bay
17Bay
Same Style available
514P
8 Bay
10 Bay
12 Bay
14 Bay
Same Style available
001PS
002P
008RM
004P
018P
008P
009P
007P

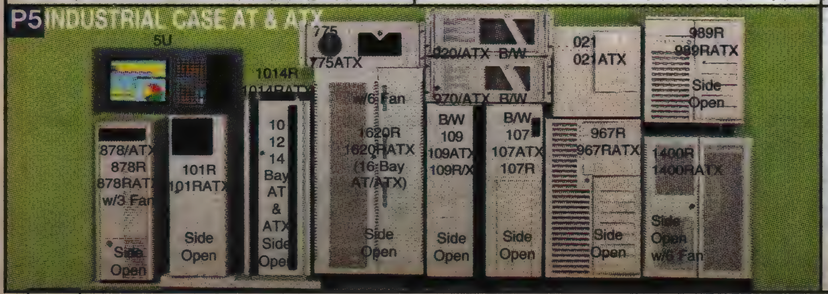
FULL & FILESERVER CASE P4


124ATX
Side Open Slide MB Cage
632ATX
Side Open
C01JATX
Slide MB Cage
556ATX
Side Open
Slide MB Cage
178ATX
Side Open
Super Micro 750A 750ATX Filter
Side Open
2ATX
Slide MB Cage
Side Open
1000ATX
Slide Door
Side Open
38ATX
Side Open
768ATX
887/ATX
887R/RATX
w/2 Fan Side open

Model	Price	Dimension W.D.H.	MB Size	5.25 Ext./Int.	3.5 Ext./Int.	Watt P.S.
P3 External SCSI Case						
528P	$1479	18.8x21.8x27.8		28/0	-	R300
same (16 Bay $939, 20 Bay $1085, 24 Bay $1269 All with R300)						
1317R	$930	13.4x21.8x31.3		17/0	-	R400
same (9 Bay $745, 11 Bay $820, 15 Bay $850 All with R300)						
514P	$936	8.8x21.5x27.8		14/0	-	R300
same (10 Bay $747, 12 Bay $801 All with R300)						
001PF	$85	8.5x10x2		-	1/0	40
001PS	$85	8.5x10x2		-	0/1	40
001P	$80	9.9x11.5x2.8		1/0	-	40
018P	$610	18.5x24.8x23.5		18/0	-	2X300
002P	$105	6.9x14.6x5.8		2/0	-	60
004P	$130	6.8x15.3x9.3		4/0	-	230
007P	$220	7x15.8x13		7/0	-	250
008RM	$380	19x18x7		8/0	-	300
008P	$295	7x19x15.8		8/0	-	300
009P	$320	6.7x15.7x18.7		9/0	-	300
P4 Full & Fileserver Case						
124ATX	$130	7.5x16.7x22.8	X	5/0	2/4	250
632ATX	$125	7.5x17x24.5	X	6/0	1/3	250
C01JATX	$110	7.5x16.8x24.5	X	6/0	3/1	230
556/ATX	$135	7.5x16.8x25	B/X	6/0	1/5	250
178ATX	$130	7.5x16.5x24.8	X	6/0	1/5	250
750/ATX	$187/$192	8.3x17.3x26.4	B/F/X	6/0	1/3	300
2ATX	$125/$145	7.9x17.1x23.6	X	5/0	1/5	230/300
1000ATX	$130	7.9x17.3x24.5	X	5/1	2/2	250
38ATX	$95	7.5x16.8x24.6	X	6/0	2/2	250
768ATX	$125	7.5x16.3x24.3	X	6/0	3/1	230
887	$480	11x19.8x24	B/F	4/8	0/0	400
887ATX	$460	11x19.8x24	X	4/8	0/0	300
887R/RX	$750/$815	11x19.8x24	B/F/X	4/8	0/0	R300
P5 Industrial Case						
5U	$1450	19x16.7x8.6	B	1/0	0/2	250
878/X	$410/$425	8.1x19.1x25.8	F/X	9/2	0/0	R300
878R/RX	$760	8.1x19.1x25.8	F/X	9/2	0/0	R300
101R/RX	$680	8.7x24.2x27	F/X	9/0	1/0	R400
1010R/RX	$670/760	13.4x21.8x31.3	F/X	9/0	1/0	R400
1012R/RX	$700/$799	13.4x21.8x27.6	F/X	11/0	1/0	R400
1014R/RX	$970/$1090	13.4x21.8x31.3	F/X	13/0	1/0	R400
775/X	$315/$320	19x20x7	B/X	2/0	1/2	250
1620R/RX	$1100/$1220	16.8x20.5x34.3	(F/X)x2	16/0	0/0	R300
920/X	$270/$290	19x18x7	B/X	2/1	0/1	250
970X	$305/$320	19x18x7	B/X	3/0	1/2	250
109/X	$176/$210	8.7x17.8x26.8	F/X	10/0	0/0	300
109R	$560	8.7x17.8x26.8	B/F	10/0	0/0	R300
107/X	$170/$205	8.7x17.8x26.8	F/X	5/3	2/0	300
107R	$560	8.7x17.8x26.8	B/F	5/3	2/0	R300
021/X	$240/$260	13.5x17.8x14	B/X	4/2	0/8	300
967R/RX	$1000/$1025	14.8x20.4x18.4	F/X	12/0	1/8	300
989R/RX	$750/$775	10x26x24.8	F/X	8/0	2/4	300
1400R/RX	$900/$1010	16.3x20.5x23.8	F/X	14/0	0/0	R300

B: Baby AT Size Motherboard. F:Fit Baby and Full AT Size Motherboard.
X: ATX Size Motherboard. R: Redundent Power Supply For AT Size.
RX: Redundent Pwer Supply for ATX Size.

P5 INDUSTRIAL CASE AT & ATX


5U
775
775ATX
1014R
1014RATX
w/6 Fan
10
12
14
Bay
AT
&
ATX
Side Open
020/ATX B/W
970/ATX B/W
021
021ATX
989R
989RATX
Side Open
878/ATX
878R
878RATX
w/3 Fan
Side Open
101R
101RATX
Side Open
1620R
1620RATX
(16 Bay AT/ATX)
Side Open
B/W
109
109ATX
109R/X
Side Open
B/W
107
107ATX
107R
Side Open
967R
967RATX
Side Open
1400R
1400RATX
Side Open
w/6 Fan

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CP5209: Satellite Pro 440CDX, 133MMX Pentium®, 16MB,1.34GB HDD, 10X CD, 12.1" FastScan	$1299.00
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CP6488: Satellite Pro 460CDX, 166MHz Pentium® w/MMX, 32MB, 2.0GB HDD, 10X, 12.1" FAST SCAN	$1899.00
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CP5207: Tecra 530CDT, 166MMX Pentium®, 32MB, 2.1GB, 10X CD, 33.6, 12.1" TFT	$3099.00
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CP7161: Armada 1571DM, 200MHz Pentium® w/MMX, 32MB, 3.2GB HDD, 20X, 12.1" DSTN	$2299.00
CP5856: Armada 1590DMT, 166MMX Processor, 16MB, 2.1GB HDD, 12.1" TFT	$2599.00
CP6701: Armada 1592DMT, 233MHz Pentium® w/MMX, 32MB, 3.1GB HDD, 20X, 12.1" SVGA CTFT	$3199.00
CP7163: Armada 1598DMT, 266MHz Pentium® w/MMX, 32MB, 4.0GB HDD, 20X, 13.3" XGA TFT	$3599.00

digital

CP6604: 715, 166MHz Pentium® w/MMX, 32MB, 2.1GB HDD, 20X, 13.3" XGA TFT	$2999.00
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CP6752: 729C, 266MHz Pentium® w/MMX, 64MB, 4.0GB HDD, 24X, 12.1" XGA TFT	$3699.00

AcerR

CP6875: Extensa 393C, 166MHz Pentium® w/MMX, 16MB, 2.1GB, 20X, 33.6Kbps, 12.1" SVGA DSTN	$1299.00
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CP6877: Extensa 394T, 200MHz Pentium® w/MMX, 32MB, 3.2GB, 20X, 33.6Kbps, 12.1" SVGA TFT	$2499.00
CP6878: Extensa 395T, 166MHz Pentium® w/MMX, 32MB, 3.2GB, 20X, 33.6Kbps, 12.1" SVGA TFT	$2699.00

HITACHI

CP7035: VisionBook Plus 5260 166MHz Pentium® MMX, 16MB, 2.1GB, 20X, 56Kbps, 12.1" HPA DSTN	$1699.00
CP7036: VisionBook Plus 5280 233MHz Pentium® MMX, 32MB, 3.2GB, 20X, 56Kbps, 12.1" HPA DSTN	$2299.00
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CP7037: VisionBook Pro 7580 233MHz Pentium® MMX, 32MB, 4.0GB, 20X, 56Kbps, 13.3" XGA TFT	$3799.00
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CP5253: Deskpro 4000 233MHz Pentium® MMX Processor, 32MB, 3.2GB, 16X, Desktop	$1489.00
CP5822: Deskpro 4000 233MHz Pentium® II Processor, 32MB, 2.4GB, Desktop	$1419.00
CP5824: Deskpro 4000 266MHz Pentium® II Processor, 32MB, 3.2GB, 24X, Desktop	$1789.00
CP5811: Deskpro 4000 300MHz Pentium® II Processor, 32MB, 3.2GB, 24X, Desktop	$2089.00
CP6825: Deskpro 4000 333MHz Pentium® II Processor, 32MB, 3.2GB, 24X, Desktop	$2389.00

IBM.

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CP6962: 300GL 266MHz Pentium® II MMX Processor, 32MB, 2.5GB, DT, 4X4, Win 95	$1469.00
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CP7034: HP Brio 8379, 333MHz Pentium® II Processor, 64MB, 8.0GB, 32X, MS Word 97	$2489.00

Inteva

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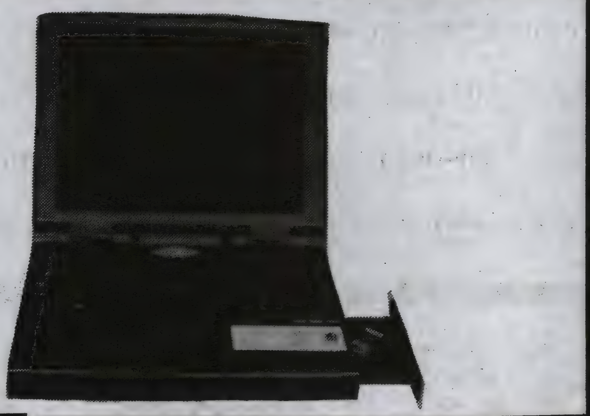

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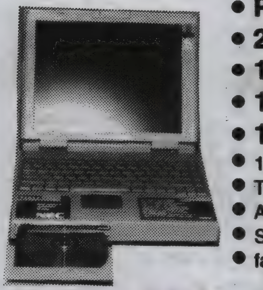

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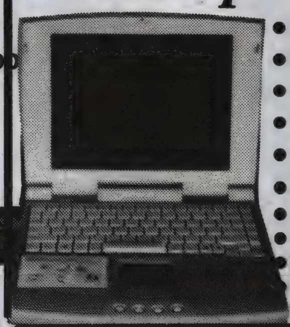

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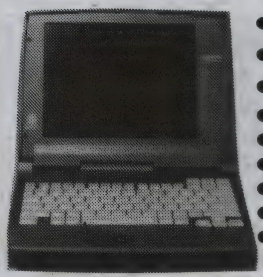

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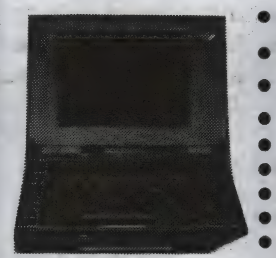

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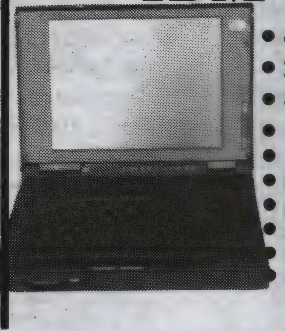

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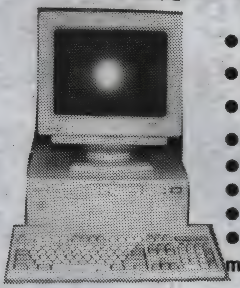

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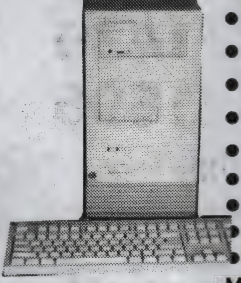

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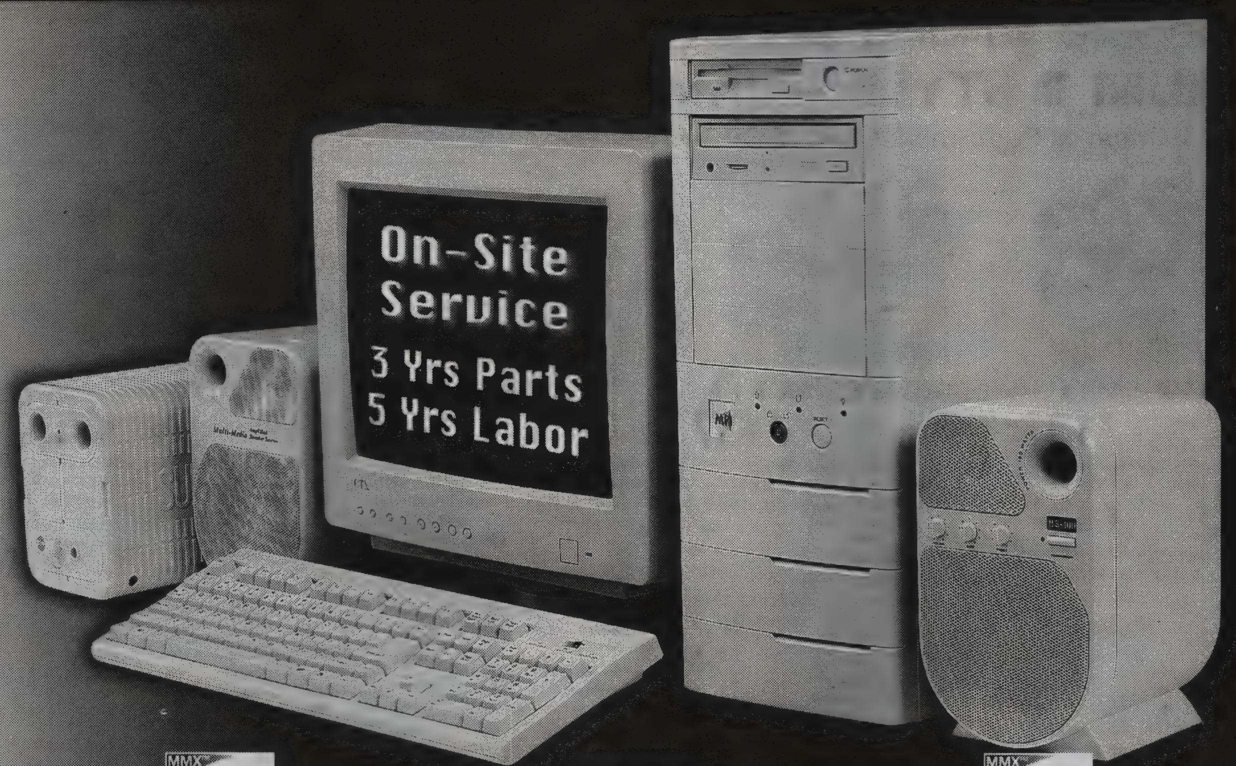

SuperGamer

- Gigabyte GA586SG, SIS5591 Chipset
- 32MB EDO RAM, 512K Pipeline Burst Cache
- 3.2 GB Ultra IDE Hard Drive
- ATI XPERT XL AGP 4MB video
- 15" .28 Flat Screen Digital Monitor
- 24X Max IDE CD-ROM, 3.5" Floppy Drive
- ENSONIQ PCI 3D wavetable Stereo Sound
- 56K Fax/Modem w/Voice & Speaker Phone
- Stereo Microphone & 240W Speakers
- Enlight Deluxe Tower Case
- 104-key Keyboard & Serial Mouse
- MS Windows'95 on CD
- Lotus SmartSuite97, 155 CD Titles, and Encyclopedia

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Intel® Pentium™ chip w/MMX

$1039 166MHz

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$1059 200MHz

$1129 233MHz

DreamMachine

- Gigabyte GA586SG, SIS5591 Chipset
- 32MB EDO RAM, 512K Pipeline Burst Cache
- 3.2 GB Ultra IDE Hard Drive
- S3 Virge DX 4MB EDO DRAM video
- 15" .28 Flat Screen Digital Monitor
- 24X Max IDE CD-ROM, 3.5" Floppy Drive
- 3D Full Duplex Stereo Sound Card
- 56K Fax/Modem w/Voice & Speaker Phone
- Stereo Microphone & 240W Stereo Speakers
- Enlight Deluxe Mini Tower Case
- 104-key Keyboard & Serial Mouse
- MS Windows'95 on CD
- Lotus SmartSuite97, 155 CD Titles, and Encyclopedia

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AMD K6 w/MMX Technology

$999 PR2-200

$1059 PR2-233

CALL PR2-266

HomeEdutainment

- Intel 430TX Chipset, PnP BIOS
- 16MB EDO RAM, 512K Pipeline Burst Cache
- 2.5 GB Ultra IDE Hard Drive
- 64-bit 1MB PCI Graphics Accelerator
- 14" .28 SVGA Color Monitor
- 24X Max IDE CD-ROM, 3.5" Floppy Drive
- 3D Full Duplex Stereo Sound Card
- 33.6K Fax/Modem w/Voice
- Stereo Microphone & 240W Stereo Speakers
- Enlight Mini Tower Case
- 104-key Keyboard & Serial Mouse
- MS Windows'95 on CD
- Lotus SmartSuite97, 155 CD Titles, and Encyclopedia

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- S3 VIRGE DX 4MB EDO DRAM video
- 24X Max IDE CD-ROM, 3.5" Floppy Drive
- 3D Full Duplex Stereo Sound Card
- 56K Fax/Modem w/Voice & Speaker Phone
- Stereo Microphone & 240W Speakers
- Enlight Deluxe Tower Case
- 104-key Keyboard & Serial Mouse
- MS Windows'95 on CD
- Lotus SmartSuite97, 55+ CD Titles, and Encyclopedia

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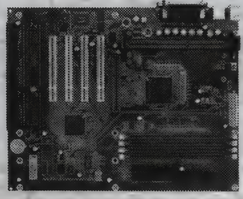
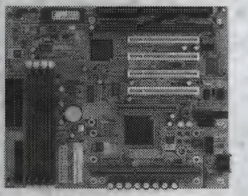


GIGABYTE GA-686LX

$138

- *SUPPORT Single PENTIUM II® processors*
- *Intel® 440LX Chipset*
- *4-168 pin DIMM sockets*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Accelerated Graphics Port (AGP) controller*
- *Built-in alarm for overheating*
- *3-ISA, 4-PCI, 1-AGP slots*
- *2-16550 serial ports*
- *1-parallel port (ECP/EPP)*
- *PS/2 mouse & keyboard on board*
- *ATX Form factor*

Intel®Pentium-II 233MHz	359
Intel®Pentium-II 266MHz	423
Intel®Pentium-II 300MHz	607
Intel®Pentium-II 333MHz	756

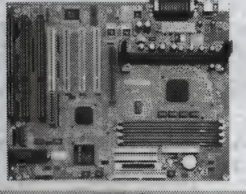


GIGABYTE GA-686BLX

$134

- *SUPPORT Single PENTIUM II® processors*
- *Intel® 440LX Chipset*
- *4-168 pin DIMM sockets*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Accelerated Graphics Port (AGP) controller*
- *Built-in alarm for overheating*
- *2-ISA, 4-PCI, 1-AGP slots*
- *2-16550 serial ports*
- *1-parallel port (ECP/EPP)*
- *PS/2 mouse & keyboard on board*
- *AT Form Factor*

Intel®Pentium-II 233MHz	356
Intel®Pentium-II 266MHz	419
Intel®Pentium-II 300MHz	603
Intel®Pentium-II 333MHz	964



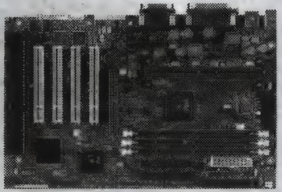
PIILS

USA Iwill

$276

- *SUPPORT Single PENTIUM II® processors*
- *Intel® 440LX AGPset*
- *4-168 pin DIMM sockets*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Accelerated Graphics Port (AGP) controller*
- ***Adaptec Ultra/Ultra Wide SCSI***
- *Ultra-wide 68-pin & 1-50-pin connectors*
- *System Hardware Monitoring & LDCM*
- *3-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports*
- *1-parallel port (ECP/EPP)*
- *PS/2 mouse & keyboard on board*
- *ATX form factor: 12" x 7.75"*

Intel®Pentium-II 233MHz	497
Intel®Pentium-II 266MHz	561
Intel®Pentium-II 300MHz	745
Intel®Pentium-II 333MHz	1106



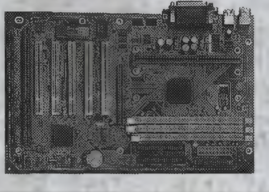
AL440LX ATLANTA

intel.

$181

- *SUPPORT Single PENTIUM II® processors*
- *Intel® 82440LX AGPset*
- *3-168 pin DIMM sockets*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Yamaha OPL3-SA3 audio built-in*
- *Accelerated Graphics Port (AGP) controller*
- *Advanced Power Management (APM)*
- *2-USB ports, 1-ISA, 3-PCI*
- *1-Shared PCI/ISA Slot*
- *PS/2 mouse & keyboard on board*
- *ATX form factor: 12" x 7.75"*

Intel®Pentium-II 233MHz	403
Intel®Pentium-II 266MHz	466
Intel®Pentium-II 300MHz	650
Intel®Pentium-II 333MHz	1012



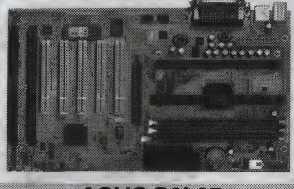
BCM SQ-632

GVC Group
BCM Advanced Research

$122

- *SUPPORT Single PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *768MB EDO or 384MB SDRAM —w/3-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 2 ISA Slots, AGP Connector*
- *2-Serial, and infared and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX size: 12" x 7.5"*

Intel®Pentium-II 233MHz	343
Intel®Pentium-II 266MHz	407
Intel®Pentium-II 300MHz	591
Intel®Pentium-II 333MHz	952



ASUS P2L97

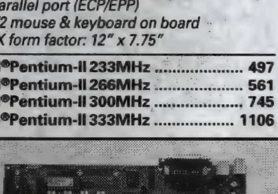
ASUS®

$155

- *SUPPORT Single PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *3-168 pin DIMM Sockets*
- *5 PCI / 2 ISA Slots, 1-AGP Connector*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *2-Serial and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX form factor: 8.3" x 12.0"*

Intel®Pentium-II 233MHz	377
Intel®Pentium-II 266MHz	440
Intel®Pentium-II 300MHz	624
Intel®Pentium-II 333MHz	985

NEW!



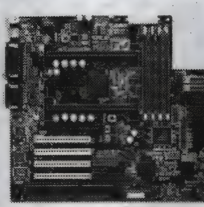
S1592 TRINITY ATX

TYAN

$112

- *VIA Apollo VP3 PCIset*
- *512K Pipeline Burst Cache*
- *4-72pin SIMM & Three 64-bit 168-pin DIMM*
- *4 32-bit PCI & 3 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 ATX Serial ports, PS/2 Keyboard & Mouse*
- *1 ECP/EPP parallel, 2 USB ports*
- *ATX Form Factor: 11.6" x 8"*

Intel®Pentium® 166MHz MMX	225
Intel®Pentium® 200MHz MMX	251
Intel®Pentium® 233MHz MMX	323
AMD K6™ PR2-200/233	233/278
CYRIX 6x86MX ™ PR200	186
CYRIX 6x86MX ™ PR233	233



TIGER ATX S1696DLUA

TYAN

$437

- *SUPPORT Dual PENTIUM-II 233MHz+*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *1GB EDO or 512MB SDRAM —w/4-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 2 ISA Slots, AGP Connector*
- *2-Serial, and infared and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX size: 12.25" x 12"*

Intel®Pentium-II 233MHz	658
Intel®Pentium-II 266MHz	722
Intel®Pentium-II 300MHz	906
Intel®Pentium-II 333MHz	1055
SUPPORT DUAL PENTIUM-II CPUs	
With (2) Intel®Pentium-II 233MHz	880
With (2) Intel®Pentium-II 266MHz	1007
With (2) Intel®Pentium-II 300MHz	1375
With (2) Intel®Pentium-II 300MHz	1674

TIGER-2 ATX S1692DL

TYAN

$264

- *SUPPORT Dual PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *4-168 pin DIMM (max 1GB RAM)*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *5 PCI / 2 ISA Slots, 1 AGP slot*
- *2-Serial, and infared and 2 USB ports*
- *ATX size: 9.5" x 12"*

Intel®Pentium-II 233MHz	468
Intel®Pentium-II 266MHz	549
Intel®Pentium-II 300MHz	733
Intel®Pentium-II 333MHz	883
SUPPORT DUAL PENTIUM-II CPUs	
With (2) Intel®Pentium-II 233MHz	708
With (2) Intel®Pentium-II 266MHz	834
With (2) Intel®Pentium-II 300MHz	1202
With (2) Intel®Pentium-II 300MHz	1501

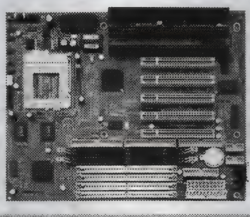
TIGER ATX S1692S

TYAN

$149

- *SUPPORT Single PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *4-168 pin DIMM (max 1GB RAM)*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *5 PCI / 2 ISA Slots, 1 AGP slot*
- *ATX size: 9.5" x 12"*

Intel®Pentium-II 233MHz	371
Intel®Pentium-II 266MHz	434
Intel®Pentium-II 300MHz	618
Intel®Pentium-II 333MHz	979



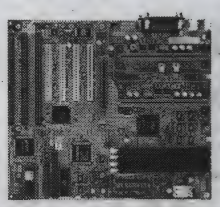
P55XB2™

USA Iwill

$103

- *Intel 430TX PCIset,*
- *512K Pipeline Burst Cache*
- *4-72pin SIMM & Two 64-bit 168-pin DIMM*
- *5 32-bit PCI & 3 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, 1 PS/2 mouse port*
- *Baby AT size: 8.8" x 11.2"*

Intel®Pentium® 166MHz MMX	216
Intel®Pentium® 200MHz MMX	242
Intel®Pentium® 233MHz MMX	313
AMD K6™ PR2-200	233
AMD K6™ PR2-233	278



P6DLS

SUPERMICRO

$345

- *SUPPORT Dual PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Adaptec 2940UW SCSI on-board controller*
- *1GB EDO or 512MB SDRAM —w/4-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 3 ISA Slots, AGP Connector*
- *2-Serial, and infared and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX size*

Intel®Pentium-II 233MHz	566
Intel®Pentium-II 266MHz	630
Intel®Pentium-II 300MHz	814
Intel®Pentium-II 333MHz	963
SUPPORT DUAL PENTIUM-II CPUs	
With (2) Intel®Pentium-II 233MHz	788
With (2) Intel®Pentium-II 266MHz	915
With (2) Intel®Pentium-II 300MHz	1274
With (2) Intel®Pentium-II 333MHz	1573

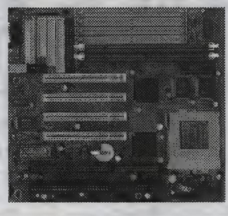
P6SLS

SUPERMICRO

$230

- *SUPPORT Single PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *Adaptec 2940UW SCSI on-board controller*
- *1GB EDO or 512MB SDRAM —w/4-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 3 ISA Slots, AGP Connector*
- *ATX size*

Intel®Pentium-II 233MHz	451
Intel®Pentium-II 266MHz	515
Intel®Pentium-II 300MHz	699
Intel®Pentium-II 333MHz	1060



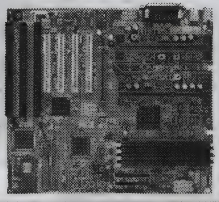
8500TTD

BIOSTAR GROUP

$77

- *Intel® Triton 430TX Chipset*
- *512K Pipeline Burst Cache*
- *4/72-pin SIMM & 2-168-pin DIMM sockets*
- *3 PCI & 4 ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy, 2-16550 Serial ports*
- *(1) ECP/EPP Parallel*
- *Baby AT size: 8.6" x 9.4"*

Intel®Pentium® 166MHz MMX	189
Intel®Pentium® 200MHz MMX	216
Intel®Pentium® 233MHz MMX	287
AMD K6™ PR2-200	207
AMD K6™ PR2-233	251



P6DLE

SUPERMICRO

$253

- *SUPPORT Dual PENTIUM-II 233MHz+*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *1GB EDO or 512MB SDRAM —w/4-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 3 ISA Slots, AGP Connector*
- *2-Serial, and infared and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX size*

Intel®Pentium-II 233MHz	474
Intel®Pentium-II 266MHz	538
Intel®Pentium-II 300MHz	722
Intel®Pentium-II 333MHz	871
SUPPORT DUAL PENTIUM-II CPUs	
With (2) Intel®Pentium-II 233MHz	696
With (2) Intel®Pentium-II 266MHz	823
With (2) Intel®Pentium-II 300MHz	1191
With (2) Intel®Pentium-II 333MHz	1490

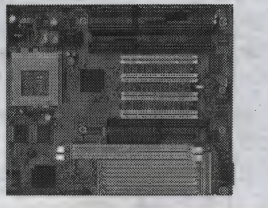
P6SLA

SUPERMICRO

$138

- *SUPPORT Single PENTIUM-II 233MHz +*
- *Intel® 440LX Chipset (enabling AGP)*
- *Ultra DMA 33 MB/s burst data transfer rate*
- *768MB EDO or 384MB SDRAM —w/3-168 pin DIMM*
- *2 EIDE, 1 Floppy, ECP/EPP parallel port*
- *4 PCI / 3 ISA Slots, AGP Connector*
- *2-Serial, and infared and 2 USB ports*
- *CPU temperature control, overheat alarm*
- *ATX size*

Intel®Pentium-II 233MHz	359
Intel®Pentium-II 266MHz	423
Intel®Pentium-II 300MHz	607
Intel®Pentium-II 333MHz	968



BCM SQ-575

GVC Group
BCM Advanced Research

$80

- *Intel 430TX PCIset*
- *512K Pipeline Burst Cache*
- *4-72pin SIMM & Two 64-bit 168-pin DIMM*
- *4 32-bit PCI & 3 16-bit ISA Slots (One shared)*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, 1 PS/2 mouse port*
- *1 USB header*
- *Baby AT, size 8.66" x 9.05"*

Intel®Pentium® 166MHz MMX	193
Intel®Pentium® 200MHz MMX	219
Intel®Pentium® 233MHz MMX	290
AMD K6™ PR2-200	210
AMD K6™ PR2-233	255

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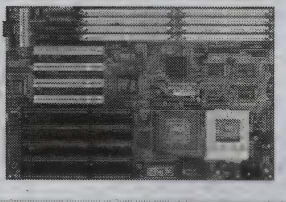


TOMCAT IV 1564S

TYAN **$126**

- *SUPPORT Single PENTIUM P75-200MHz*
- *Intel® Triton-2 430HX Chipset*
- *512K Pipeline Burst Cache*
- *8/72-pin SIMM socket (512MB max.)*
- *4 PCI / 4 ISA slots (one shared)*
- *4 EIDE, 2 Floppy, 2-16550 serial*
- *1 ECP/EPP Parallel, 2-USB ports*
- *Baby AT size: 8.66" x 13.25"*

Intel®Pentium® 166MHz MMX	239
Intel®Pentium® 200MHz MMX	265
Intel®Pentium® 233MHz MMX	336
AMD K6™ PR2-200	256
AMD K6™ PR2-233	301

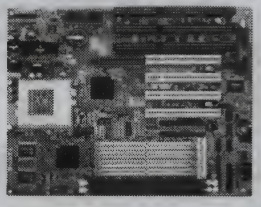
TOMCAT IV 1564D

TYAN **$164**

SUPPORT Dual Intel® PENTIUM CPUs

Intel®Pentium® 166MHz MMX	277
Intel®Pentium® 200MHz MMX	303
Intel®Pentium® 233MHz MMX	374

Ask for prices with DUAL CPU.

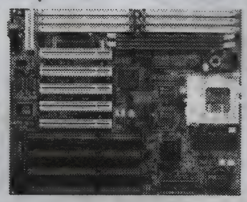


ASUS TX97E

ASUS **$133**

- *Intel 430TX PCIset, Award Flash BIOS*
- *512K Pipeline Burst Cache*
- *4-72pin SIMM & Two 64-bit 168-pin DIMM*
- *4 32-bit PCI & 4 16-bit ISA Slots (One shared)*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, USB ports*
- *Baby AT size: 11.1" x 8.6"*

Intel®Pentium® 166MHz MMX	246
Intel®Pentium® 200MHz MMX	272
Intel®Pentium® 233MHz MMX	343
AMD K6™ PR2-200	263
AMD K6™ PR2-233	308



S1571 TITAN TURBO AT

TYAN **$103**

- *Intel 430TX PCIset*
- *512K Pipeline Burst Cache*
- *6-72pin SIMM & Two 64-bit 168-pin DIMM*
- *5 32-bit PCI & 4 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, AT keyboard connector*
- *2 USB ports support rev 1.2,*
- *Baby AT, size: 11" x 8.8"*

Intel®Pentium® 166MHz MMX	216
Intel®Pentium® 200MHz MMX	242
Intel®Pentium® 233MHz MMX	313
AMD K6™ PR2-200	233
AMD K6™ PR2-233	278

123 WARRANTY EXTENSION for **$20**

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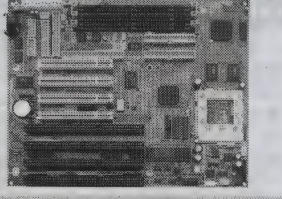


P55XUWB™

Iwill **$218**

- *Intel® Tritium 430TX PCI Chipset*
- *4 PCI / 4 ISA slots, 2 USB ports*
- *4 EIDE Support Ultra DMA33*
- *3 X DIMM sockets*
- *512K Pipeline Burst Cache*
- *Baby AT size: 8.8" x 11.2"*

P55XUWB™

Offers Adaptec Ultra / Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID.

Adaptec ARO 1130 RAID adapter	289
Intel®Pentium® 166MHz MMX	331
Intel®Pentium® 200MHz MMX	357
Intel®Pentium® 233MHz MMX	428
AMD K6™ PR2-200	348
AMD K6™ PR2-233	393

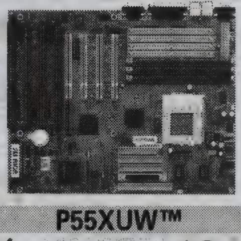
P55XUB™

Iwill **$172**

P55XUB™

Offers Adaptec Ultra SCSI on-board which is equivalent to AHA 2940AU.

Intel®Pentium® 166MHz MMX	285
Intel®Pentium® 200MHz MMX	311
Intel®Pentium® 233MHz MMX	382
AMD K6™ PR2-200	302
AMD K6™ PR2-233	347



P55XUW™

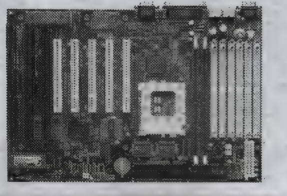
Iwill **$218**

- *Intel® Tritium 430TX PCI Chipset*
- *4 PCI / 4 ISA slots, 2 USB ports*
- *4 EIDE Support Ultra DMA33*
- *4/72 pin SIMM & 3 X DIMM sockets)*
- *512K Pipeline Burst Cache*
- *ATX size: 9.8" x 12.2"*

P55XUW™

Offers Adaptec Ultra / Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID.

Adaptec ARO 1130 RAID adapter	289
Intel®Pentium® 166MHz MMX	331
Intel®Pentium® 166MHz MMX	357
Intel®Pentium® 200MHz MMX	428
Intel®Pentium® 233MHz MMX	442
AMD K6™ PR2-200	348
AMD K6™ PR2-233	393

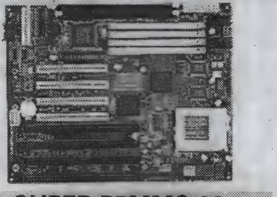


S1573 TITAN TURBO ATX

TYAN **$103**

- *Intel 430TX PCIset*
- *512K Pipeline Burst Cache*
- *6-72pin SIMM & Two 64-bit 168-pin DIMM*
- *5 32-bit PCI & 3 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, 1 PS/2 mouse port*
- *2 USB ports support, 1 PS/2 keyboard*
- *ATX footprint, size: 13.3" x 8.7"*

Intel®Pentium® 166MHz MMX	216
Intel®Pentium® 200MHz MMX	242
Intel®Pentium® 233MHz MMX	313
AMD K6™ PR2-200	233
AMD K6™ PR2-233	278



SUPER P5MMS-98

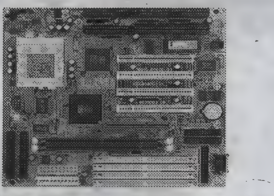
SUPERMICRO **$115**

- *Intel 430TX PCIset, Award Flash BIOS*
- *512K Pipeline Burst Cache*
- *4-72pin SIMM & Two 64-bit 168-pin DIMM*
- *4 32-bit PCI & 4 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, USB port*
- *ACPI / PC-98 Features*
- *PC Health Monitoring (LM78)*
- *Baby AT size: 11" x 8.3"*

Intel®Pentium® 166MHz MMX	227
Intel®Pentium® 200MHz MMX	254
Intel®Pentium® 233MHz MMX	325
AMD K6™ PR2-200	244
AMD K6™ PR2-233	289

SUPER P5MMA-98

SUPERMICRO **$115**

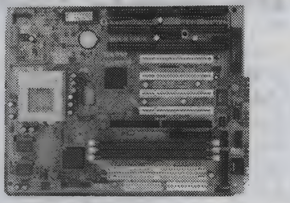


GIGABYTE GA586-SG

$85

- *SIS 5591 PCI Chipset*
- *512K Pipeline Burst Cache*
- *4/72-Pin SIMM & 2 64-bit 168-pin DIMM*
- *4 32-bit PCI & 2 16-bit ISA Slots*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *1 32-bit AGP Slot*
- *2 Floppy, 2-16550 Serial ports*
- *1 ECP/EPP Parallel, USB Ports (optional)*
- *Baby AT Form Factor*

Intel®Pentium® 166MHz MMX	197
Intel®Pentium® 200MHz MMX	224
Intel®Pentium® 233MHz MMX	295
AMD K6™ PR2-200	215
AMD K6™ PR2-233	259
AMD K6™ PR2-266	CALL
CYRIX 6x86MX ™ PR200	158
CYRIX 6x86MX ™ PR233	205



GIGABYTE GA586TX3

$101

- *Intel 430TX PCIset, Award Flash BIOS*
- *512K Pipeline Burst Cache*
- *2-72pin SIMM & Three 64-bit 168-pin DIMM*
- *4 32-bit PCI & 3 16-bit ISA Slots (One shared)*
- *4 EIDE Support Ultra DMA 33MB/s rate*
- *2 Floppy support, 2-16550 Serial ports*
- *1 ECP/EPP parallel, 1 PS/2 mouse port*
- *Size: 3/4 AT Form Factor*

Intel®Pentium® 166MHz MMX	213
Intel®Pentium® 200MHz MMX	240
Intel®Pentium® 233MHz MMX	311
AMD K6™ PR2-200	231
AMD K6™ PR2-233	276

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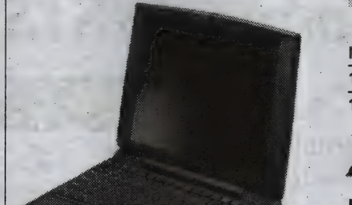
AMS Tech notebook computers provide the ultimate in mobile computing—advanced performance of Intel Pentium® Processors with MMX™ technology.



intel inside pentium®

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Model	Pentium® Processor	RAM	HD	Modem	CD	Display	Price
3000ECX	166MMX	32MB	3.1GB	56K	20X	14.1"TFT	$3379
3010ECX	200MMX	64MB	3.1GB	56K	20X	14.1"TFT	$3519
3015ECX	233MMX	32MB	2.1GB	56K	20X	14.1"TFT	$3429
3020ECX	233MMX	64MB	3.1GB	56K	20X	14.1"TFT	$3739
3030ECX	233MMX	64MB	4.0GB	56K	20X	14.1"TFT	$3795
5000ECX	233MMX	32MB	3.1GB	56K	20X	14.1"TFT	$3519
5010ECX	233MMX	64MB	3.1GB	56K	20X	14.1"TFT	$3649
5020ECX	233MMX	64MB	4.0GB	56K	20X	14.1"TFT	$3849
5030ECX	266MMX	64MB	4.0GB	56K	20X	14.1"TFT	$3999

AMS Tech TravelPro Series

Model	Pentium® Processor	RAM	HD	Modem	CD	Display	Price
106CS	166MMX	16MB	1.4GB	opt.	opt.	12.1"DSTN	$1439
1960CT	166MMX	16MB	2.1GB	33.6K	20X	12.1"TFT	$1939
1965CT	200MMX	16MB	2.1GB	33.6K	10X	12.1"TFT	$2219
1970CT	233MMX	48MB	3.1GB	33.6K	20X	12.1"TFT	$2479
2040CX	233MMX	80MB	3.1GB	33.6K	20X	13.3"TFT	$2749

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10CT	200MMX	16MB	2.1GB	33.6K	20X	12.1"TFT	$1719

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233MHz Pentium® chip 2.6v (MMX Tech)	209
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200MHz Pentium® Pro chip	449
233MHz Pentium™ II chip	219
266MHz Pentium™ II chip	285
300MHz Pentium™ II chip	469
333MHz Pentium™ II chip	579
AMD	
K6™ PR2-166 (With MMX Technology)	119
K6™ PR2-200 (With MMX Technology)	132
K6™ PR2-233 (With MMX Technology)	175
K6™ PR2-266 (With MMX Technology)	CALL
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6x86MX™ PR166	69
6x86MX™ PR200	79
6x86MX™ PR233	119

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168-Pin: 2x64,4x64,8x64,16x64	CALL

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V775 17" SVGA .26mm 1600x1280 NI	479
V95 17" SVGA .26mm 1680x1280 NI	719

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AMD-K6™ PR2-200	**279**
AMD-K6™ PR2-233	**325**
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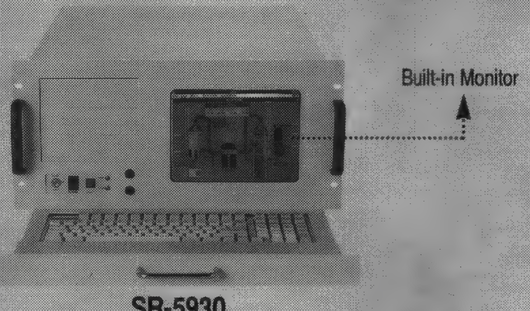

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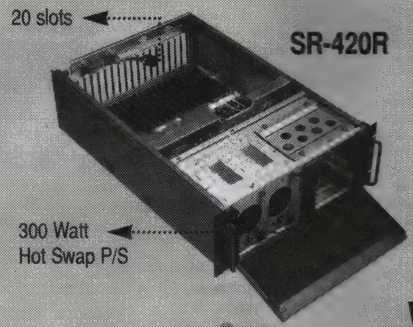

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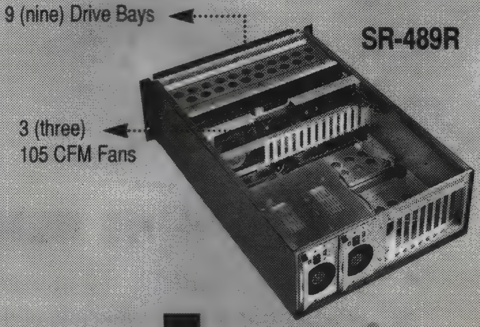

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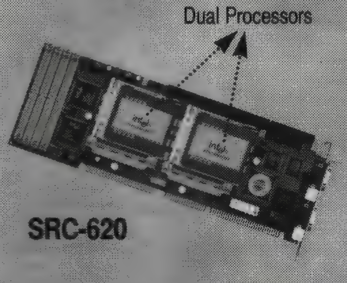

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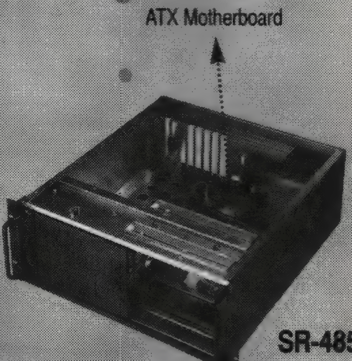

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ZX-1
(BASIC DESKTOP ONE)

- **GVC KR632** 440LX AGP Set Mainboard
- 512K Built-In Cache
- Zenon Mid Size ATX Case

Optional:
- **32MB SDRAM** .... Add $65
- **64MB SDRAM** .... Add $135
- **2.0GB HD** .... Add $125
- **4.3GB Ultra ATA HD** .... Add $185
- **6.0GB Ultra ATA HD** .... Add $225
- **15" SVGA Digital Color Monitor, .28DPI** .... Add $185

233MHZ Pentium® Processor w/MMX™ Technology	**$329**
300MHz Pentium® II Processor	$579
266MHz Pentium® II Processor	$489
233MHz Pentium® II Processor	$429

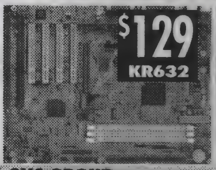
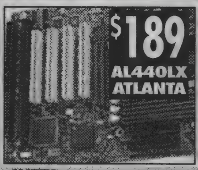
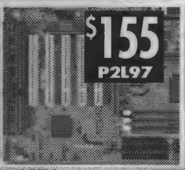
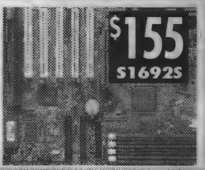
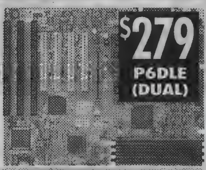
ZX-2
(BASIC DESKTOP TWO)

- **GVC KR632** 440LX AGP Set Mainboard
- 512K Built-In Cache
- **32MB SDRAM**
- **ATI AGP XPERT XL 3D Rage Pro 4MB**
- Zenon Mid Size ATX Case

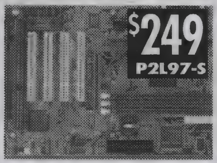
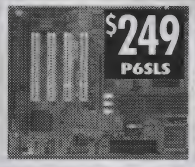
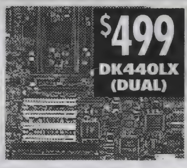
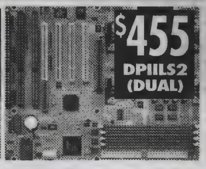
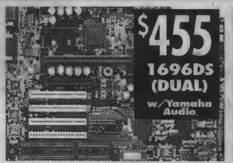
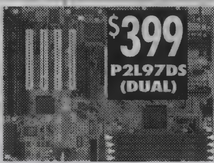
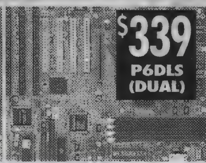
Optional:
- **17" SVGA Digital Color Monitor** Add $275
- **K56 Flex PCI Fax Modem....** Add $65

233MHZ Pentium® Processor w/MMX™ Technology	**$469**
300MHz Pentium® II Processor	$719
266MHz Pentium® II Processor	$629
233MHz Pentium® II Processor	$569

PENTIUM® II PROCESSOR 440LX AGPSET MOTHERBOARD 48 HOURS BURN IN

	 $129 KR632	 $189 AL440LX ATLANTA	 $155 P2L97	 $155 S1692S	$279 S1692DL (DUAL)	$155 P6SLA	 $279 P6DLE (DUAL)
BRAND NAME	**GVC GROUP**	**INTEL**	**ASUS**	**TYAN**	**TYAN**	**SUPERMICRO**	**SUPERMICRO**
Form Factor/Flash BIOS	ATX/Award	ATX/Award	ATX/Award	ATX/AMI	ATX/AMI	ATX/AMI	ATX/AMI
Processor Support	Single	Single	Single BEST BUY	Single	**Dual**	Single BEST BUY	**Dual**
168 Pin DIMM /Maximum SDRAM	3/384MB	3/384MB	3/384MB	3/512MB	4/512MB	3/384MB	4/512MB
2 Ultra EIDE + High Speed I/O + 2 USB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slots PCI/ISA/AGP	4/2/1	4/2/1	5/2/1	5/2/1	5/2/1	4/3/1	4/3/1
Built-In	2 USB, 1 IR, ECC	1 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC
233/266/300/333MHz Pentium® II Processor	**$353/$413/$513/$743**	**$399/$459/$559/$789**	**$385/$445/$545/$775**	**$385/$445/$545/$775**	**$513/$573/$673/$903**	**$381/$441/$541/$771**	**$509/$569/$669/$889**

PENTIUM® II PROCESSOR 440LX CHIPSET W/ADAPTEC 2940UW SCSI-3 48 HOURS BURN IN

	 $249 P2L97-S	 $249 P6SLS	 $499 DK440LX (DUAL)	 $455 DPIILS2 (DUAL)	 $455 1696DS (DUAL) w/Yamaha Audio	 $399 P2L97DS (DUAL)	 $339 P6DLS (DUAL)
BRAND NAME	**ASUS**	**SUPERMICRO**	**INTEL**	**IWILL**	**TYAN**	**ASUS**	**SUPERMICRO**
Form Factor/Flash BIOS	ATX/Award BEST BUY	ATX/AMI	ATX/AMI	ATX/Award	ATX/Award	ATX/Award	ATX/AMI BEST BUY
Processor Support	Single	Single	**Dual**	**Dual**	**Dual**	**Dual**	**Dual**
168 Pin DIMM/Maximum SDRAM	3/384MB	4/512MB	4/1GB	4/512MB	4/512MB	4/512MB	4/512MB
2 Ultra EIDE + High Speed I/O + 2 USB	Yes + Adaptec 2940UW SCSI-3	Yes + Adaptec 2940UW SCSI-3	Yes + Adaptec 2940UW SCSI-3	Yes + **Dual** Adaptec 2940UW SCSI-3 (Ideal For Hard Drive Mirroring)	Yes + **Dual** Adaptec 2940UW SCSI-3 (Ideal For Hard Drive Mirroring)	Yes + Adaptec 2940UW SCSI-3	Yes + Adaptec 2940UW SCSI-3
Support Adaptec Aro 1130 Raid Controller	No	No	Yes	Yes	Yes	No	No
Slots PCI/ISA/AGP/RAID	4/2/1	4/3/1	4/2/1	4/3/1/1	4/2/1/1	4/2/1	4/3/1
Built-In	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC (Audio)	2 USB, 1 IR, ECC	2 USB, 1 IR, ECC
233/266/300/333MHz Pentium® II Processor	**$483/$543/$643/$873**	**$483/$543/$643/$873**	**$729/$789/$889/$1119**	**$669/$729/$829/$1059**	**$669/$729/$829/$1059**	**$629/$689/$789/$1019**	**$579/$639/$739/$969**

333MHz PENTIUM® II

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- **CAPTURE CARD** up to 30 frames per second motion video capture, composite & s-video input
- **SOFTWARE INCLUDES:** vdophone - video conference via the internet and video link (video e-mail software)

ZX-3

(MULTIMEDIA PC)

- **GVC KR632** 440LX AGP Set Mainboard
- 512K Built-In Cache
- **32MB SDRAM**
- **6.0GB Ultra ATA** Hard Drive
- **ATI AGP XPERT XL 3D Rage Pro 4MB**
- **3D Full Duplex** Stereo Sound Card
- **24X** CD-ROM Drive & Amplifier Speakers
- K56 Flex PCI Fax Modem VoiceMail & Speaker Phone
- Zenon Mid Size ATX Case & MS Windows 95
- 104-Key Keyboard & High Res. Genius NetMouse
- Monitor Sold Seperately

Optional:
- **DVD-2 CD-ROM Drive** .... Add $85

300MHZ **$1179**
Intel Pentium® II Processor

333MHz Pentium® II Processor	$1409
266MHz Pentium® II Processor	$1079
233MHz Pentium® II Processor	$1019

ZX-4

(DESKTOP WORKSTATION)

- **GVC KR632** 440LX AGP Set Mainboard
- 512K Built-In Cache
- **64MB SDRAM**
- **6.0GB Ultra ATA** Hard Drive
- **ATI AGP XPERT XL 3D Rage Pro 4MB**
- **3D Full Duplex** Stereo Sound Card
- **32X** CD-ROM Drive & Amplifier Speakers
- K56 Flex PCI Fax Modem VoiceMail & Speaker Phone
- MS Windows 95 & Zenon Mid Size Tower Case
- 104-Key Keyboard & High Res. Genius NetMouse
- **FREE Color Digital Camera** w/Capture Card
- Monitor Sold Seperately

Optional:
- **ATI All-In-Wonder Pro** 4MB SGRAM . Add $135
- **ATI All-In-Wonder Pro** 8MB SGRAM . Add $185

300MHZ **$1299**
Intel Pentium® II Processor

333MHz Pentium® II Processor	$1529
266MHz Pentium® II Processor	$1199
233MHz Pentium® II Processor	$1039

ZX-5

(GRAPHICS WORKSTATION)

- **ASUS P2L97-S** 440LX AGP Set Mainboard
- 512K Built-In Cache
- **64MB SDRAM**
- **Adaptec** 2940UW SCSI-3 Controller (Built-In)
- **6.4GB** Ultra SCSI-3 Hard Drive & 1.44MB FDD
- **Leadtek AGP L2300 3DLab Permier II 8MB SGRAM**
- **3D Full Duplex** Stereo Sound Card
- **32X** CD-ROM Drive & Amplifier Speakers
- K56 Flex PCI Fax Modem VoiceMail & Speaker Phone
- Zenon Mid Tower Case & MS Windows 95
- 104-Key Keyboard & High Res. Genius NetMouse
- Monitor Sold Seperately

Optional:
- **Upgrade To 32X** SCSI-2 CD-ROM. . . . . Add $45
- **4GB** SCSI-2 Tape Drive . . . . Add $349

333MHZ **$1779**
Intel Pentium® II Processor

300MHz Pentium® II Processor	$1549
266MHz Pentium® II Processor	$1459
233MHz Pentium® II Processor	$1399

ZX-6

(CLIENT/SERVER)

- 512K Built-In Cache
- **128MB SDRAM**
- **Adaptec** 2940UW SCSI-3 Controller (Built-In)
- **9.0GB** Ultra SCSI-3 Hard Drive & 1.44MB FDD
- **ATI AGP XPERT XL 3D Rage Pro 4MB**
- **3D Full Duplex** Stereo Sound Card
- **32X SCSI** CD-ROM Drive & Amplifier Speakers
- Zenon Full Size Tower Case
- 104-Key Keyboard & High Res. Genius NetMouse
- MS Windows 95
- Monitor Sold Seperately

Optional:
- **Ethernet 3COM** PCI 905 TX100 Mbps . Add $75
- **Windows NT 4.0 Station.** . . . . . Add $95
- **Windows NT 4.0 Server 5 Users**Add $395

300MHZ **$1979**
Intel Pentium® II Processor

333MHz Pentium® II Processor	$2199
266MHz Pentium® II Processor	$1879
333MHz DUAL Pentium® II Processor	$3099
300MHz DUAL Pentium® II Processor	$2649
266MHz DUAL Pentium® II Processor	$2399

SOCKET 7 PCISET BASED MAINBOARD

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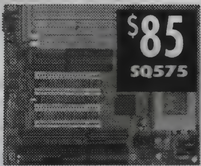
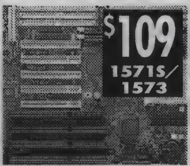
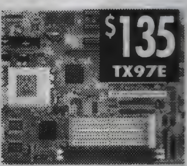
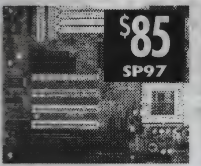
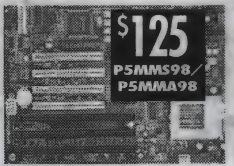


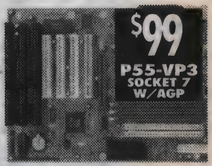








$99
PA-2007
(VIA590VP2 Chipset)



BRAND NAME	GVC GROUP	TYAN	ASUS	ASUS	SUPER MICRO	FIC	EPOX
Form Factor (Chipset)	Baby AT (INTEL 430TX)	Baby AT/ATX (INTEL 430TX)	Baby AT (INTEL 430TX)	Baby AT (SIS Chipset)	Baby AT/ATX (INTEL 430TX)	Baby AT (VIA590VP2 Chipset)	ATX (VIA Apollo VP3)
Pipeline Burst Cache Included(Max.)	512K Bytes	512K Bytes	512K Bytes	512K Bytes	512K Bytes	1024K Bytes	512K Bytes
Maximum Memory	128MB	256MB	256MB	256MB	128MB	512MB	384MB
72 Pin SIMM EDO/168 Pin DIMM SDRAM	4/2	6/2	4/2	4/0	4/2	4/2	2/3
2 Ultra EIDE + High Speed I/O	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flash BIOS	Award	Award	Award	Award + Built-In PCI Video	AMI	AMI	Award
Slots PCI/ISA	4/3	5/4	4/4 (1 Shared)	4/3	4/4	4/3	4/3 + 1AGP
Built-In	2 USB, 1 IR	2 USB, 1 IR	2 USB, 1 IR	2 USB, 1 IR	2 USB, 1 IR	2 USB, 1 IR	1 USB, 1 IR, 1AGP
Motherboard Only	$85	$109	$135	$85	$125 (ATX ADD $10)	$99	$99
200/233MHz **Pentium® Processor with MMX™ Technology**	**$199/$219**	**$219/$249**	**$245/$275**	**$195/$225**	**$235/$265**	**$219/$249**	**$219/$249**

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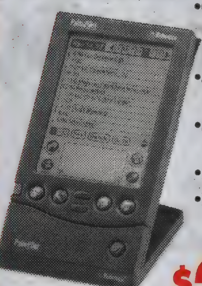

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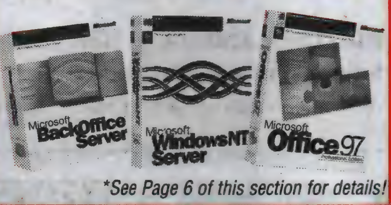

*See Page 6 of this section for details!

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- 0.26mm dot pitch
- 1600x1200 max.

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Also Available

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Q53 .28 dp, 1280x1024, 15" (13.8" viewable)	$235
Q51 .28 dp, 1024x768, 15" (13.7" viewable)	$215*
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*Reflects Instant Rebate good through 4/29/98

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CDP-200ES 17"

New

CDP 100ES 15" Trinitron	$319
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CDP 200GS 17" Trinitron	$649
GDM 200PS 17" Trinitron	$795
GDM 400PS 19" Trinitron	$1009
CDP 300SF 20" Trinitron	$1119
GDM 500PS 21" Trinitron	$1645
GDM W900 24" Trinitron	$3649

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Mega Monitor

- 21" (20" viewable)
- 0.25mm dot pitch
- 1800x1440 max.

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PT813 .28 AG pitch, 1600x1200 @ 85Hz, 21" (20" v.)	$1385
P810 .25 dot pitch, 1600x1200, 21" (20" viewable)	$1229
G790 .26 dot pitch, 1600x1200, 19" (18" viewable)	$879
PT775 .25 AG pitch, 1600x1200 @ 77Hz, 17" (16" v.)	$679
P775 .25 dot pitch, 1600x1200, 17" (16" viewable)	$569
17GA .27 dp, 1280x1024, 17" (16" v.), speakers	$519
G773 .26 dp, 1280x1024, 17" (16" viewable)	$479
GS771 .27 dp, small footprint design 17" (16" v.)	$479
G771 .27 dp, 1280x1024 17" (16" viewable)	$455
E771 .27 dp, 1280x1024, 17" (16" viewable)	$399
15GA .27 dp, 1280x1024, 15" (14" v.), speakers	$325
15GS .27 dot pitch, 1280x1024, 15" (14" viewable)	$299
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Stealth II 5220 4MB PCI 3D	$115
Viper V330 2D/3D Video PCI	$189

Stealth3D 2000 2MB EDO DRAM	$79
Stealth3D 2000 Pro 4MB TV Out	$139
Stealth3D 2000 XL2	$99
Stealth3D 3000XL 4MB VRAM PCI	$185
Stealth64 Graphics 2200 2MB DRAM VLB	$95
Stealth64 Video 2201 TV Tuner Option	$89
Stealth64 Video 2121XLE 1MB DRAM PCI	$135
Stealth64 Video 2201 2MB DRAM PCI w/TV Tuner	$175
Stealth II S220 2MB PCI 3D	$115

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Millennium II 4MB / 8MB Upgrade	$115 / $185
Millennium II 12MB Upgrade	$279
Mystique 220 Business 2MB / 4MB	$105 / $129
Mystique 2MB/4MB/6MB Upgrade	$49 / $65 / $85
Rainbow Runner Studio for Mystique	$185
Rainbow Runner Television for Mystique	$85
Rainbow Runner Studio for Millennium II	$185
Millennium Add on Modules:	
Millennium Media XL MPEG	$289
Millennium 2MB/4MB/6MB Upg.	$79 / $135 / $169

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3D XPRESSION+™ 2MB PCI	.$75
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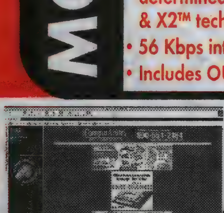

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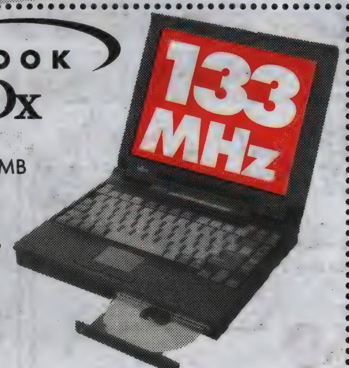

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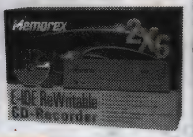

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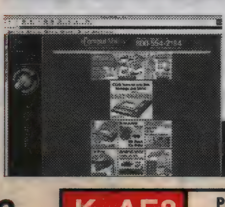

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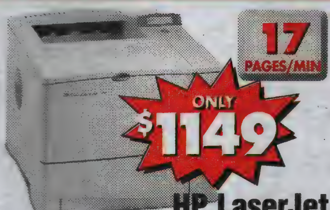

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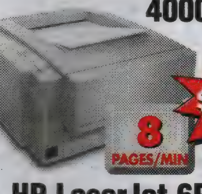

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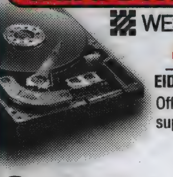

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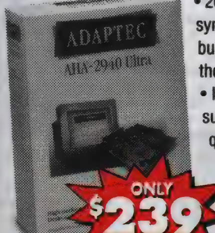

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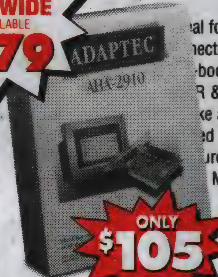

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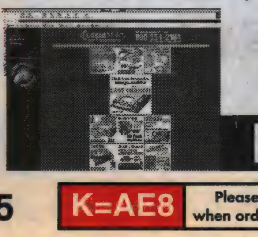

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- 17" .27 NI CYBERVISION MONITOR
- SUBWOOFER GNT-5000
- 104 KEYBOARD PS-2
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- MINITOWER CASE

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- 1.44MB FLOPPY DISK DRIVE
- S-3D VIRGE 4MG
- 16 BIT SOUND CARD
- MINITOWER CASE

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ThinkPad 380ED	Pent-™/166 MMX	16MB	3.0GB+8X-20X	12.1" Active	$2675.
ThinkPad 380ED	Pent-™/166 MMX	16MB	5.1GB+8X-20X	12.1" Active	$2867.
ThinkPad 560E	Pent-™/166 MMX	16MB	2.1GB	12.1" Active	$2867.
ThinkPad 560X	Pent-™/233 MMX	32MB	4.0GB	12.1" Active	$3536.
ThinkPad 760XL	Pent-™/166 MMX	16MB	2.1GB	12.1" Active	$3754.
ThinkPad 765D	Pent-™/166 MMX	32MB	3.0GB+8X	13.3" Active	$3880.
ThinkPad 770	Pent-™/233 MMX	32MB	4.0GB	13.3" Active	$4205.
ThinkPad 770	Pent-™/233 MMX	32MB	4.0GB	13.3" Active	$4301.
ThinkPad 770	Pent-™/200 MMX	32MB	3.2GB	13.3" Active	$3631.
ThinkPad 770	Pent-™/233 MMX	32MB	5.1GB	14.1" Active	$4970.

COMPAQ Laptops!

1550DMT $2179

7710MT $1980

7790DMT $4870

Model	Processor	Ram	HD	Screen	Price
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1560DM	P166-MMX	16/80MB	3.2GB+20X	12.1"Dual Scan	$2434.
1592DMT	P233-MMX	32/96MB	3.2GB+20X	12.1" Active Clr	$3799.
1530DM	P133-MMX	16/80MB	1.4GB+10X	12.1"Dual Scan	$1946.
1540DM	P150-MMX	16/80MB	2.1GB+20X	12.1"Dual Scan	$2240.
4150	P150-MMX	16/80MB	1.6GB	12.1"Dual Scan	$2179.
4160T	P166-MMX	16/80MB	2.0GB	12.1"Dual Scan	$3137.
4210T	P233-MMX	32/96MB	3.2GB	12.1" Active Clr	$3409.
4220T	P266-MMX	32/96MB	4.0GB	12.1" Active Clr	$3895.
4160TSL	P166-MMX	16/80MB	2.0GB	12.1" Active Clr	$3116.
7330T	P150-MMX	16/128MB	2.1GB	12.1" Active Clr	$1881.
7350MT	P166-MMX	32/128MB	3.0GB+20X	12.1" Active Clr	$3409.
7360DMT	P200-MMX	32/128MB	4.0GB+20X	12.1" Active Clr	$3895.
7370DMT	P233-MMX	32/128MB	4.0GB+20X	12.1" Active Clr	$4675.
7380DMT	P266-MMX	32/128MB	4.0GB+20X	12.1" Active Clr	$4870.
7380NT	P266-MMX	32/128MB	1.6GB	12.1" Active Clr	$4968.
7710MT	P150-MMX	64/144MB	2.1GB	12.1" Active Clr	$1980.

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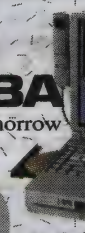

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50CT	Pentium™/75	16MB	772MB	6.1 Active Clr.	$1248.
70CT	Pentium™/120MMX	16MB	1.58GB	6.1 Active Clr.	$1928.
220CDS	Pent-133	16MB	1.34GB+10X	12.1" Dual Scan	$1318.
430CDT	Pentium™/120	16MB	1.2GB+10X	11.3" Active Clr.	$1638.
440CDX	Pent-133 MMX	16MB	1.34GB+10X	12.1" Fast Scan	$1538.
440CDT	Pent-133 MMX	16MB	1.34GB+10X	12.1" Active Clr.	$1698.
460CDX	Pent-166 MMX	32MB	2.02GB+10X	12.1" Fast Scan	$1968.
460CDT	Pent-166 MMX	32MB	2.02GB+10X	12.1" Active Clr.	$2838.
470CDT	Pent-200 MMX	32MB	2.02GB+10X	12.1" Active Clr.	$2818.
480CDT	Pent-233 MMX	32MB	3.82GB +10X	12.1" Active Clr.	$3398.
3600CT	486DX2-50	8MB	250MB	8.4" Active Clr.	$998.
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660CDT	Pentium™/150	16MB	1.35GB+10X	11.3" Active Clr.	$1958.
300CT	Pent-133 MMX	32MB	1.51GB	10.4 Active Clr.	$1918.
300CT	Pent-133 MMX		3.87GB	10.4 Active Clr.	$2198.
320CT	Pent-266 MMX	32MB	3.87GB	Panoramic Act.	$3548.
520CDT	Pent-166 MMX	32MB	2.02GB+10X	12.1" Active Clr.	$2598.
520CDT	Pent-166 MMX	32MB	3.87GB+10X	12.1" Active Clr.	$3028.
530CDT	Pent-166 MMX	32MB	2.02GB+10X	12.1" Active Clr.	$2918.
550CDT	Pent-266 MMX	32MB	3.82GB+20X	12.1" Active Clr.	$3824.
730XCDT	Pent-150 MMX	16MB	2.1GB+6X	12.1" Active Clr.	$2138.
740CDT	Pent-166 MMX	16MB	3.0GB+10X	13.3" Active Clr.	$2838.
740CDT NT	Pent-166 MMX	16MB	3.0GB+10X	13.3" Active Clr.	$3028.
750CDM	Pent-233 MMX	32MB	4.77GB+20X	13.3" Active Clr.	$4798.
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VL5	Pentium 166 MMX	32MB	2.5GB	W-NT 4.0	$1127.
VL5	Pentium 200 MMX	16MB	2.5GB	Win-95 / WFW	$1034.
VL5	Pentium 200 MMX	32MB	2.5GB	Win-95 / WFW	$1204.
VL5	Pentium 233 MMX	32MB	2.5GB	Win-95 / WFW	$1339.
VL5	Pentium 200 MMX	32MB	2.5GB+24X	Win-95 / WFW	$1254.
VL5	Pentium 233 MMX	32MB	2.5GB	Win-95 / WFW	$1254.
VL6	Pentium II 233	32MB	2.5GB	W-NT 4.0	$1551.
VL6	Pentium II 233	32MB	2.5GB	Win-95	$1449.
VL6	Pentium II 266	32MB	2.5GB	W-NT 4.0	$1797.
VL6	Pentium II 266	32MB	2.5GB	Win-95	$1695.
VL6	Pentium II 266	32MB	2.5GB	W-NT 4.0	$1882.
VL6	Pentium II 266	32MB	4.0GB+24X	W-NT 4.0	$2179.
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DP-2000	Pent-™/166MMX	16MB	3.2GB	W-95	$984.
DP-2000	Pent-™/200MMX	16MB	2.1GB	W-95	$1016.
DP-2000	Pent-™/200MMX	32MB	3.2GB	W-95	$1168.
DP-2000	Pent-™/233MMX	32MB	2.1GB	W-95	$1571.
DP-2000	Pent-™/233MMX	32MB	2.1GB	W-NT	$1662.
DP-2000	Pent-™/233MMX	32MB	3.2GB+24X	W-NT	$1888.
DP-2000	Pent-™/266MMX	32MB	3.2GB+24X	W-NT	$2095.
DP-2000MT	Pent-™/166MMX	32MB	3.2GB+16X	W-95	$1276.
DP-2000MT	Pent-™/200MMX	32MB	3.2GB+16X	W-95	$1423.
DP-2000MT	Pent-II™ 266	32MB	3.2GB+24X	W-NT	$2122.
DP-2000MT	Pent-II™ 300	32MB	3.2GB+24X	W-NT	$2457.

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Model	Processor	Ram	HD	Screen	
4140X	Pentium™/133MMX	16MB	1.4GB+20X	12.1" Dual Scan	$1398.
4350X	Pentium™/150MMX	16MB	2.1GB+20X	12.1" Active Clr.	$1598.
4360X	Pentium™/166MMX	16MB	2.1GB+10X	12.1" Active Clr.	$1798.
7360	Pentium™/166MMX	32MB	2.1GB+10X	12.1" Active Clr.	$2028.
7370	Pentium™/200MMX	32MB	3.2GB+20X	12.1" Active Clr.	$2948.
7560	Pentium™/166MMX	32MB	3.2GB+10X	13.3" Active Clr.	$2298.
7580	Pentium™/233MMX	32MB	3.2GB+20X	13.3" Active Clr.	$3858.

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P6LXIS-233~333+,PII,440LX,PCI/ISA/AGP,2940UW/2xUIDE,4xDim,ATX.....$ 265
P6LXI-233~333+,PII,440LX,PCI/ISA/AGP,2xUIDE,4xDim,2xUSB,ATX.......... $ 155
P6KDIS-233~300,Dual P-II,5xPCI/3xISA,2940UW/Raid/UIDE/IO,Dim,ATX.$ 365
P6NDP-150~200Mhz,Dual Pro,Natoma,4xPCI/4xEISA,2940UW/IO,2S/1P....$ 569
P6NPI/S-150~200Mhz,Pro,Natoma,4xPCI/4xISA,2940UW/IDE,2S/1P,ATX....$ 255
P5TDP-75~233MMX,Dual P,TX,512k,4xPCI/4xEISA,2940UW,2S/1P,AT.........$ Call
P54TXI/S-75~233MMX/K6,TX,512K,PCI/ISA,2940UW/UIDE,2S/1P,ATX........$ 215
P5TXI-75~233MMX/K6,Triton TX,512k,5xPCI/3xISA,UIDE/IO,2S/1P,ATX.... $ 115
P2L97-DS-233~333+,Dual PII,440LX,PCI/ISA/AGP,2940UW/2xIDE,ATX......$ 395
P2L97S-233~333+,PII,440LX,4xPCI/2xISA/AGP,SCSI/IDE,3xDim,USB,ATX.$ 249
P2L97-233~333+,PII,440LX,4xPCI/2xISA/AGP,2xUIDE/IO,2S/1P,ATX.......... $ 165
P5TX97-E-75~233MMX,TritonTX,512k,4xPCI/3xISA,2xIDE/IO,2S/1P,Dimm $ 135
P5TXP4-75~233MMX/K6,430TX,512k,4xPCI/3xISA,2xUIDE/IO,Sim/Dim,AT$ 115
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P6SLS-233~333+,P-II,440LX,4xPCI/3xISA/AGP,2940UW/IDE,Dim,ATX.........$ 245
P6SLA233~333+,P-II,440LX,4xPCI/3xISA/AGP,2xUlata IDE,3xDim,ATX.......$ 159
P6DKS-233~300+,Dual P-II,440FX,4xPCI/4xISA,2940UW/2xIDE/IO,ATX.....$ 265
P6SKS-233~300+,P-II,440FX,4xPCI/4xISA,2940UW,2xIDE//IO,2S/1P,ATX....$ 209
P6SKEII-233~300+Mhz,P-II,440FX,4xPCI/4xISA,2xIDE/IO,2S/1P,USB,ATX$ 125
P6DNH2-150~200Mhz,Dual Pro,FX,8xPCI/3xISA,i960rd,2xIDE/IO,Sim,AT..$ 535
P5MMS98-75~233MMX,430TX,512k,,4xPCI/3xISA,IDE/IO,2S/1P,Dim,AT......$ 135
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M1DLS-233~333+,Dual PII,440LX,3xPCI/2xISA/AGP,2xIDE,USB,Dim,ATX.$ 459
M1SLT-233~333+,PII,440LX,4xPCI/3xISA/AGP,2xIDE/IO,2S/1P,Dim,ATX....$ 219
M1DFD-233~300,Dual PII,440FX,4xPCI/2xISA,IDE/IO,2S/1P,Dimm,ATX....$ 349
M1SFW-233~300,P-II,440FX,4xPCI4xISA,IDE/IO,2S/1P,4x72/2x168,ATX.....$ 198
M8SFIN-150~200Mhz,Natoma,4xPCI/4xISA,IDE/IO,2S/1P,4x168-pin,ATX...$ 219
M7S-Hi-90~233MMX,430HX,512K,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72,ATX.$ 179
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Dakata-Dual P2,440LX,3xPCI/1xISA/AGP,2940UW/IDE,VGA,4xDim,ATX...$ 539
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Portland-P-II,440FX,3xPCI/3xISA,2xIDE/IO,SB16,USB,4x72-pin,ATX..........$ 159
Venus/Pro-150~200Mhz,Natoma,4xPCI/3xISA,2xIDE/IO,2S/1P,USB,ATX......$ 89
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S-1692DL-233~333+,Dual P-II,440LX,PCI/ISA/AGP,2xUIDE,4xDim,ATX.... $ 275
S-1692SL-233~333+,SP2,440LX,5xPCI/2xISA/AGP,2xUIDE/IO,4xDim,ATX. $ 175
S-1682D-150~200Mhz,Dual/P2,440FX,5xPCI/3xISA,IDE,2S/1P,8x72,ATX....$ 259
S-1564D-75~233MMX,Dual/P,430HX,512K,4xPCI/5xISA,IDE/IO,2S/1P,AT.. $ 179
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MULTIPASS L6000

An Office Machine Of All Trades

Canon's first laser multifunction device puts faxing, scanning, copying, and printing at your fingertips.

BY DAVE JOHNSON

A small office can seem downright Lilliputian when a gaggle of imaging devices dominates every flat surface in the room. Multifunction units reclaim some of that shelf space—and offer a significant cost savings at the same time—by merging a printer, scanner, copier, and fax machine in the same chassis. Canon Computer Systems' newest multifunction device, the MultiPass L6000, is the company's first laser-based, monochrome all-in-one, offering the functionality of a roomful of devices in the convenience of a single, small box.

In fact, the L6000 looks like an ordinary fax machine, and does its best to work as one. You can use it like a fax or copier without even connecting it to your PC. Make the connection, though, and you can easily control the device from Windows 95. It behaves like any 600-dpi, 6-ppm laser printer, fax machine, copier, or sheetfed scanner. The operator panel most closely resembles that of a fax machine, with a single-line LCD status panel surrounded by a numeric keypad and a series of function buttons. Most operations are straightforward—to send a fax, you simply insert the document and tap out a phone number. To make a copy, press the Start/Copy button.

You can choose among several fax modes depending on how you manage your phone lines. The L6000 is most useful in one of its automatic modes, where it detects a fax tone and can either receive the fax or pass a voice call onto a telephone or answering machine. You can also configure the L6000 to receive faxes manually. Canon didn't include a built-in telephone or answering machine, but there's a phone jack for connecting an extension directly to the unit. Particularly convenient is the fact that the L6000 can answer incoming calls silently, and then ring audibly if the call is, in fact, a voice call. On the other hand, you'll have to answer any attached extension, or the L6000 will keep ringing.

MultiPass L6000

Canon Computer Systems
2995 Redhill Ave.
Costa Mesa, CA 92626
800-848-4123; 714-438-3000
www.ccsi.canon.com
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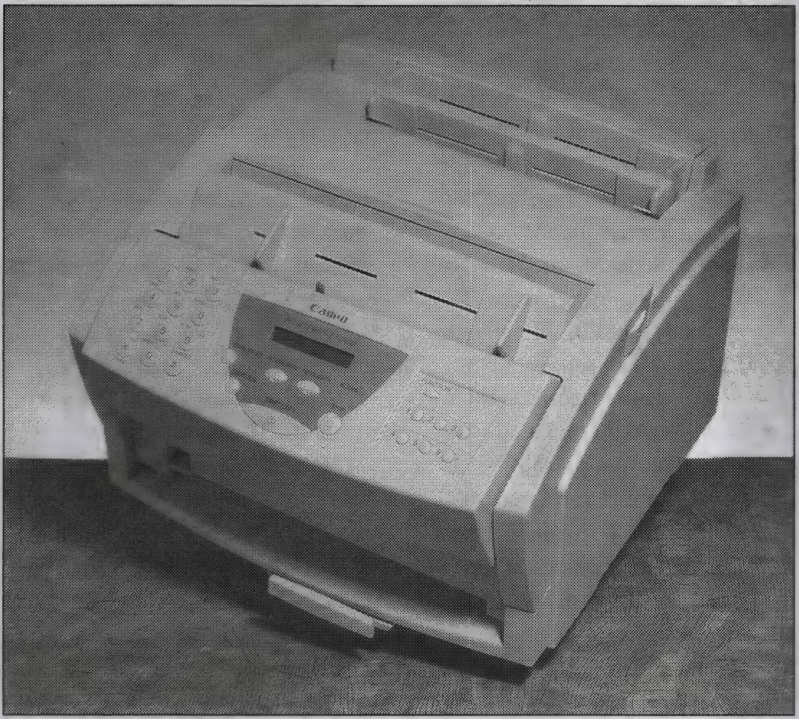
Requires: 25MB hard drive space, bidirectional parallel cable; Windows 95
Mfr. Est. Price: $599

The fax machine shows the unit's overall flexibility—you can fax directly from your PC, or from the front panel of the L6000 itself. Incoming faxes can be set to print or upload to the PC's hard drive. If you run out of paper or toner, the L6000 can hold up to 122 pages in memory and upload them to your PC on command. If you answer the phone and it turns out to be an incoming fax, you can trigger the L6000 to grab the fax from the phone's keypad, which is great if you're on an extension in another room. When sending faxes, you can program the machine's front panel for six one-touch dials and 50 speed-dial locations. Want to send a broadcast fax? It can send the same document to as many as 57 recipients.

Controlling the device from Windows 95 is easy thanks to Canon's MultiPass Desktop Manager. Organized like a cross between a document manager (such as Visioneer's PaperPort software) and a traditional fax application, the Desktop software is a centralized in-box for faxing and scanning. The program's major features are available from toolbars at the top and bottom of the screen. To scan a document, simply click the Scan button at the top of the display. After the document is stored on your hard drive, you can drag its thumbnail to the Fax or Email icons at the bottom of the screen to send it to someone else.


Although the MultiPass L6000 does its best work as a fax machine, it also provides high-quality laser printing, gray-scale scanning, and copying capability.

The Desktop is certainly a serviceable centralized command center, but it is anemic compared with similar Windows applications. The document folders—like the Inbox, Outbox, and your custom folders—can't be nested, making it more difficult to stay organized. And the annotation tools that you use to draw on faxes and scanned documents don't include personalized stamps. That means you can't add your own signature to an electronic document.

Canon's ColorGear scanning software is much better. Convenient drop-down menus allow you to choose resolution, and a set of tabs keep preferences and image settings just a click away. On the other hand, we were disappointed that the L6000 only scans in gray scale. While most business documents work just fine in black and white, Web-bound documents are certain to be stymied by the lack of color.

Unfortunately, the L6000 is no threat to the world's land speed record. The printer clocked in at 5.6 ppm on our tests, shy of Canon's rated 6 ppm. When making multiple copies in copier mode, the complete original is fed past the scan head before any copies are made, resulting in a slow first-copy speed. After that, up to 99 copies may be made at one time at about 6 ppm. The copier/fax tray can handle as many as 20 originals and contains a single-sheet feeder for thicker stock. We had no trouble printing card stock and labels, and up to seven envelopes can be fed through the system at once. Thanks to Canon's laser engine, print output was consistently excellent.

In a busy office, expect to replenish the L6000 often. You can store about 100 sheets of paper in the vertical paper tray, and the toner cartridge is good for 2,700 pages. And be sure to order a bidirectional printer cable along with the L6000, since Canon doesn't include one.

Priced at an affordable $599, the MultiPass L6000 provides over a thousand dollar's worth of peripherals in a cost-effective footprint. Despite limitations such as slow performance, no built-in phone or answering machine, and gray-scale-only scanning, the MultiPass L6000 is certainly worthy of your consideration. ▼

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DIGITAL PC 3500 6300

A Not-Just-for-Business System

Digital offers a lean and powerful system for the corporate desktop market.

BY BILL O'BRIEN

Corporate buyers tend to want workstations that are reasonably fast, easy to maintain, relatively inexpensive, and that offer no distractions from the tasks at hand. That just about sums up the concept behind Digital Equipment Corp.'s Digital PC 3500 6300. Lacking an adrenaline-pumping name like Tornado or Annihilator, as well as a few other things that many enthusiasts would consider essentials, the $2,573-estimated system is nothing less than a good, solid plow horse.

Digital PC 3500 6300

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www.windows.digital.com
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Mfr. Est. Price: $2,573

After receiving the system, we kept looking for a box containing the speakers, near-standard equipment on most PCs these days. But there weren't any—and for good reason. The system does not need speakers because it lacks a sound card. It lacks a modem as well. Digital does include a 32x CD-ROM drive for loading or running applications as needed, but not for the likes of Quake or audio CDs.

Although priced in the range of most 266MHz Pentium II systems, the savings gained by omitting social amenities—and by holding it to 32MB of memory—allows a little more latitude in selecting a CPU. The PC 3500 6300 is powered by a 300MHz Pentium II processor that delivers the expected level of 32-bit performance for its class, according to our CPUmark$_{32}$ test. Digital gives you the option of Windows 95 or Windows NT at no additional cost.

For home users and graphic artists, a hard drive with the capacity of Digital's 4.3GB Fireball ST is a little short of the mark. But this system's workstation character makes it more than large enough. It's also a competently fast drive with a Business Disk WinMark 98 result that's within a few percentage points of that set by our benchmark system.

Graphics, on the other hand, are not a strong point for the PC 3500 6300. It contains the equivalent of a Matrox Mystique graphics card, with 2MB of SGRAM, integrated on the motherboard. That should be adequate for most business applications, as long as their maximum palette and resolution requirements don't exceed 16 bits at 1,024x768 and 24 bits at 800x600. MPEG video also takes a hit from the graphics system. Our test clip ran well at its native resolution, but when scaled to full screen, it dropped nearly half of its frames.

The graphics system is also slow—in fact, it's well below the level we've come to expect from 300MHz Pentium II systems. As a result, our Business Winstone 98 series of tests, which rely on Windows business applications to rate a system's overall performance, rate the Digital system as running slightly below the average for 300MHz Pentium II machines running Win 95. How much of an issue that might be for you depends on whether your application suite runs more toward word processing, where speed is usually a moot issue, or presentation design, where it can be critical.

Digital houses the PC 3500 6300 in a chunky midsize tower measuring 16x8.5x18 inches. Four externally accessible bays poke through the front of the case; two are occupied by the CD-ROM and floppy drives. There are two additional bays on the inside, one of which holds the Quantum hard drive. Getting to the inside is no great feat—all it takes is a twist at three thumbscrews that hold the combination top and right half of the shell in place.

Digital uses its own motherboard with a Phoenix BIOS and 440LX chip set. It has one ISA and one PCI slot as well as two shared slots; all are vacant. Two of the three DIMM sockets are used for the system's 32MB of memory. There are no wire overhangs or any other obstructions. Actually, considering how little is inside the case, there is a wealth of space that will probably never be used.

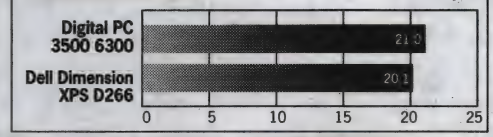
The most important feature of this motherboard for the prospective corporate buyer is not what it contains or how can it can be expanded, but its design. With an eye toward maximum productivity and ease of maintenance, the board

COMPUTER SHOPPER BUSINESS TEST SUITE

Digital PC 3500 6300

	Digital PC 3500 6300	*Benchmark System:* Dell Dimension XPS D266
PROCESSOR TYPE	300MHz Pentium II	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	739	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	97	105
16.8 Million Colors @ 800x600	100	96
Disk Subsystem Performance		
Business Disk WinMark 98	1,280	1,350
Multimedia Performance		
CD-ROM WinMark 98	1,660	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	0/54	0/0
CPU Utilization (%)	58/98	43/43

Business Winstone 98 (65,536 Colors @ 1,024x768)



System as Tested: 440LX chip set; 32MB SDRAM; 512K cache; Quantum Fireball ST 4.3GB hard drive; Toshiba 6202B 32x CD-ROM drive; Matrox Mystique graphics card integrated with 2MB SGRAM; DEC FR-PCXBV-F2 17-inch monitor; Windows 95 OEM Service Release 2; additional software

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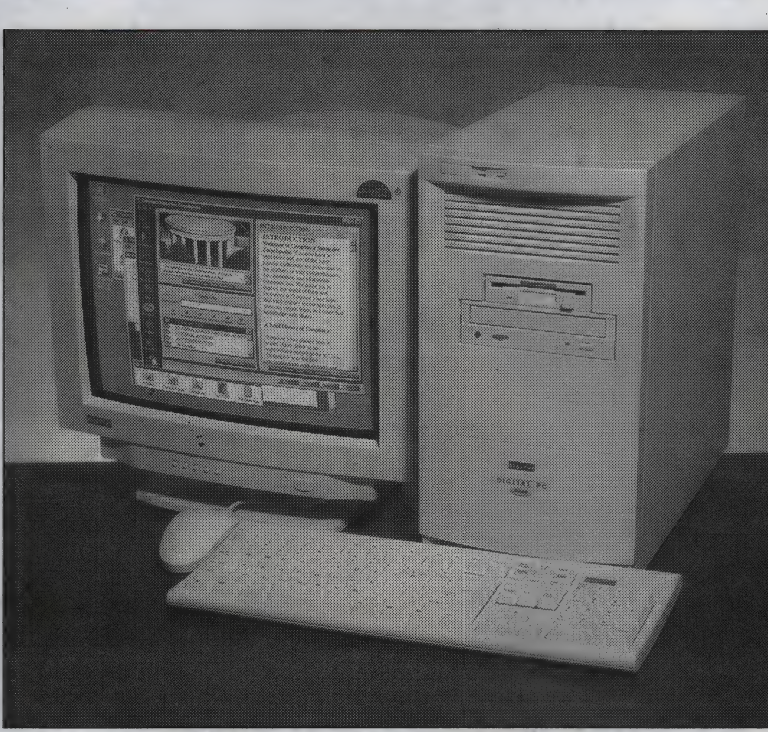
can be removed from the case by unplugging the power and data cables, lifting a plastic brace, raising two latches, and sliding it out. In the event of a failure, it might take a maximum of five minutes to swap in a replacement.

Although priced in the range of most 266MHz Pentium II systems, the savings gained by omitting social amenities—and by holding it to 32MB of memory—allows a little more latitude in selecting a CPU.

Whether you're doing that work yourself depends on what level of warranty you've elected to buy. The basic plan includes three years of parts coverage with the first year of labor handled onsite. After that, labor is your responsibility. An extended $99 plan will fill in the remaining two years of the parts warranty with onsite service. Digital even offers a five-year optional onsite extension for $399, but at the rate at which computers—even workstations—become obsolete, it's best to weigh your long-term expectations against the cost. By 2003, that amount might be enough to buy a comparable new computer.

Considering the poorly written technical pamphlets that are often supplied as system documentation, it was refreshing to look through Digital's manuals. Well-written in comprehensible language and nicely illustrated, they are above the industry standard. Should any questions arise that are not covered by the documentation, they can be addressed by Digital's toll-free technical support, which is available 24 hours daily.



The Digital PC 3500 6300 lacks a modem, speakers, and a sound card, but it doesn't need them: This high-performance system is meant for the business power user.

The Digital PC 3500 6300 would be woefully out of place if compared with almost any of the similarly powered SOHO systems we've seen. In fact, Digital has a variety of other models that would be more appropriate to that venue. The PC 3500 6300 does work well, however, at the task for which it was designed: corporate workstation computing. The only complaint we have is the slow graphics system, and the only change we would make would be to upgrade to Windows NT 4.0. ▼

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As a source of information, the Internet has no equal. Through the Net, and particularly through the World Wide Web, data consumers now have unprecedented access to information and entertainment content. On the Net, we are in command. On the Net, we take in only what we want.

Then again, maybe not. The structured nature of previously existing media makes it easier to know all of one's choices. To see what's on television, it's a simple matter to turn it on and flip through the channels, or pick up a *TV Guide* if you're feeling especially indecisive. On the Internet, finding the information that matches your need is another matter entirely.

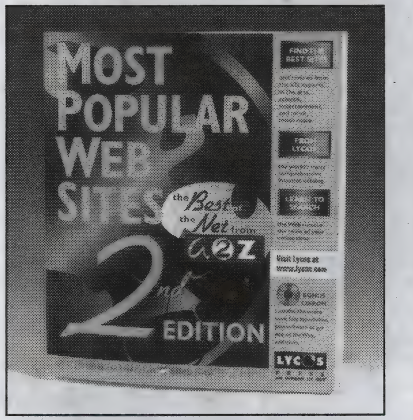
Thankfully, as long as the Web has been around, publishing companies have been putting together Internet and Web directories—guides to the sites, grouped according to subject. These guides were especially useful when users were first discovering the Internet. These days, however, they seem best suited for the newbie, idle browsing, or actively researching a specific topic. This month, we looked at several of the latest offerings.

MOST POPULAR WEB SITES: THE BEST OF THE NET FROM A2Z, 2ND ED.

For those who believe bigger is better, Karen McFadden's *Most Popular Web Sites: the Best of the Net From A2Z* from Lycos Press (yes, the search engine Lycos) should fit the bill. There are nearly 1,000 pages of listings, with 15 to 20 sites listed per page (though many listings appear more than once). Here, the reader can get a sense of the true scope of what's available on the Web.

Most Popular Web Sites could perhaps have used some more illustrations, but it certainly delivers the information. You can find a site devoted to nearly anything here—and not just the expected pop-culture pages, but more utilitarian links, as well. Looking for the home page of a college in Finland? Looking for an organization devoted to cognitive psychology? Looking for recipes that use a big, smelly fruit called durian? Look no further. Better still, each section features a list of the 25 most popular sites in that category, as well as expanded "Editor's Choice" listings.

In terms of bang for the buck, *Most Popular Web Sites* blows away the majority of the competition (and there is a lot), but some problems remain. The system of organization is quite logical in the broad categories, but gets very complex as the reader moves to specifics. Many of the categories overlap—listings are repeated in several places throughout the guide—and this overlap sometimes leads to confusion. (If you agree, try using the included CD-ROM, which features a complete hypertext version of the book; the links make navigation somewhat easier.) Consolidating the categories and eliminating some of the less useful information, like a listing of personal home pages, could have made this guide a bit more manageable.

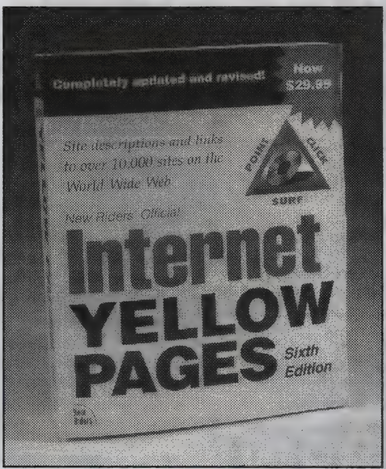


Some editorial and obsolescence problems plague the text as well. Of eight sites this reviewer visited from the listings, three had changed addresses, one of the addresses was listed incorrectly, and some of the reference information seems not to have been updated from previous editions, especially entertainment-related pages.

Still, for sheer volume of information, *Most Popular Web Sites* is tough to beat. If you need a Web directory with everything, this is the one to start with.

NEW RIDERS' OFFICIAL INTERNET YELLOW PAGES, 6TH ED.

The *New Riders' Official Internet Yellow Pages* isn't quite as imposing as *Most Popular Web Sites*, but it still delivers quite a bit of fodder for surfing. It slants toward well-known and established commercial Internet sites, but also provides extensive coverage of many topics, is well-organized, and makes a much better choice of guides for the newbie.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The *Official Internet Yellow Pages* has a couple of distinct advantages over other Directories. First, as the name implies, the listings aren't confined to the Web. The books lists plenty of URLs, of course, but each topic section also contains Listserv addresses and newsgroups. Second, the book begins with more than a hundred helpful pages of basic information on connecting to the Net, selecting a browser, and other important subjects. The writing in these articles is easy to understand without skimping on the technical details. These sections could have been condensed, as there's a fair amount of overlapping information, but in general, the introductory material would be helpful to a beginner.

Best of all, like the Lycos book, it includes a free CD with a searchable version of the book. At $29.99, the *New Riders' Official Internet Yellow Pages* is a bargain—easy enough for novices, and also containing plenty of interesting sites for more experienced surfers.

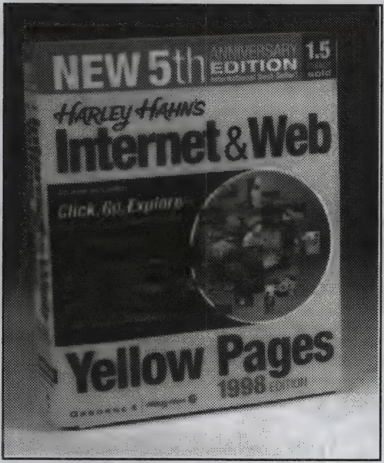
HARLEY HAHN'S INTERNET & WEB YELLOW PAGES, 5TH ANNIVERSARY ED.

This direct competitor to the *Official Internet Yellow Pages* offers much of the same information: Useful Web and FTP sites and newsgroup information alphabetically grouped by general category, then subcategory. What sets it apart, however, is its levity. Harley Hahn has made a name for himself by publishing four other smart, engaging volumes of Internet-hunting, and he doesn't disappoint on his fifth time out.

So, in addition to finding out where to look for computer industry, government, business, and education information, you'll also be led to Web and Internet sites that focus on fetishes, occultism, and extraterrestrials. There is even a whole section listing bizarre Internet sites, including the Devilbunnies, Spleen, and Squashed Bug Zoo Web sites. Throughout the beefy volume, Hahn provides mock yellow-page advertisements, personal (albeit short) reviews, and selections from especially fascinating sites (none of which overwhelm the directory structure). Some of the excerpts Hahn highlights are more amusing curiosities rather than real information.

Even if Hahn didn't put some humor into this directory, it would still have an excellent index and a useful CD-ROM to recommend it. The CD contains a searchable version of the book (with a great interface, we should add), and AT&T WorldNet service software.

Thankfully, as long as the Web has been around, publishing companies have been putting together Internet and Web directories—guides to the sites, grouped according to subject.



At its worst, this directory will slightly frustrate those looking for straightforward answers, but at its best, it will provide an entertaining look at the Internet and the Web sites that make it so diverse, informative, and fun. It was by far the best read of the three, even when we weren't looking for something specific.

OTHERS

There are so many more directories, new and outdated, general and niche, that we couldn't review them all on these pages. Some other new or recently updated Internet and Web directories include *The Educator's Guide to the Web* by Bernard Robin, Elisa Keeler, and Robert Miller, IDG Books Worldwide; *City Guide USA* by Bryan Hiquet and Katharine English, Ziff-Davis Press; and *Lycos' Insites Series*, which includes Web guides for women, gays and lesbians, and senior citizens.

Despite the plethora of intelligent and amusing offerings by print publishers, we are not completely convinced that you need to spend money on an Internet directory. After all, a multitude of competent online search engines can help you find what you are looking for. And there's a good chance that some of the sites these directories point to won't be in business by the time you go visit. Still, these guides may help surfers, especially ones new to the Internet experience, find what they are looking for quickly and easily, and perhaps with a little bit of fun. ▼

SECTION CONTINUES ON PAGE 423

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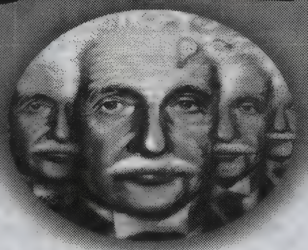
MEMORY MAN



DESKTOP MEMORY

Memory prices listed are for reference only. Call or check our website at www.memman.com for current prices. Prices on the net are updated daily.

	EDO 72 PIN-60	NON PARITY 72 PIN-60	TRUE PARITY 72 PIN-60	SDRAM 168 PIN-10	30 PIN MEMORY	
1MB					$9 LP	$13 TP
4MB	$13	$13	$17		$13 LP	$18 TP
8MB	$16	$16	$29			
16MB	$29	$32	$39	$33		
32MB	$59	$64	$78	$63		
64MB				$157		

CPU MODULES

INTEL		AMD	CYRIX
Pentium 166MMX $109	Pentium II 233...........$245	K6-200..............................$88	PR200MX............................ $76
Pentium 200MMX.......................$115	Pentium II 266...........$340	K6-233............................$129	PR233MX..........................$118
Pentium 233MMX.......................$158	Pentium II 300...........$465		
	Pentium II 333...........$648		

Due to unstable CPU prices, we ask that you call or check our website for current prices.

NOTEBOOK MEMORY & BATTERIES

TOSHIBA	8MB	16MB	24MB	32MB	BATTERY
T2100 SERIES	$36	$60	$88		$84
T1900/46/47/48/4900 SERIES	$51	$66			$109
SATELLITE PRO 100/200/400	$43	$66		$115	$85
TECRA 500/10/20/30/SATELLITE 220/225/ SAT PRO 440/445/460	$32	$54		$99	CALL

IBM	8MB	16MB	24MB	32MB	BATTERY
THINK PAD 345/355/360 SERIES	$56	$66			$116
THINK PAD 365X/XD	$32	$52		$113	$113
THINK PAD 500/510	$51	$66			CALL
THINK PAD 760EX/ED/E/EL/XD/XL	$32	$52		$113	$270

AST	8MB	16MB	24MB	32MB	BATTERY
ASCENTIA 800/810	$48	$64			$109
ASCENTIA J	$32	$54		$99	CALL
ASCENTIA P	$49	$80		$127	CALL

FUJITSU	8MB	16MB	24MB	32MB	BATTERY
MILAN, MONTEGO, MONTE CARLO & LIFEBOOK	$32	$52		$113	$127

Acer	8MB	16MB	24MB	32MB	BATTERY
LIGHT 350, E, 352, 355, 763-880	$28	$51			CALL
LIGHT 372, 373, 374, 382, 383	$36	$59		$113	CALL

HEWLETT PACKARD PRINTERS	2MB	4MB	8MB	16MB	
LASERJET 4P,MP,V,MV/5,P,MP,N,SI/6P,MP,PXI	$20	$25	$35	$45	
LASERJET III, D, P/IIP, PLUS	$43	$63			

Call for models not listed.

NEC	8MB	16MB	24MB	32MB	BATTERY
ULTRA LITE VERSA	$74	$79			$107
VERSA M/P 4000 SERIES	$74	$79		$132	$107
VERSA 6000	$54	$82		$121	$299

DELL	8MB	16MB	24MB	32MB	BATTERY
LATITUDE 433m-475mc	$48	$67			$113
LATITUDE LX SERIES 41000/T/4750	$48	$67			CALL
LATITUDE XP/XPI SERIES	$31	$51			CALL
LATITUDE LM	$32	$56		$99	CALL

SHARP	8MB	16MB	24MB	32MB	BATTERY
PC-3010/20/40/50/60 SERIES	$28	$51			$124
PC-87/88/8900 SERIES	$46	$68			$133
PC-9040/70 SERIES	$28	$51			CALL
PC-9000 SERIES	$51	$78		$132	$218

COMPAQ	8MB	16MB	24MB	32MB	BATTERY
CONTURA 4/25	$43	$70			$90
CONTURA AERO	$46	$68			$99
CONTURA 400/10/20/30	$48	$66			$99
LTE ELITE SERIES	$46	$63	$96		$154
PRESARIO 1207,1210,1610/15/20		$59		$135	$205
PRESARIO 1010/20/30/60/65/70/75/80 SERIES	$36	$70		$117	$127

Printer, Desktop & Notebook Memory Also Available (ACER, APPLE, AT&T, BROTHER, CANON, CTX, DEC, GATEWAY, HITACHI, NCR, OKI, PANASONIC, SAMSUNG, STAR, TI, WINBOOK, ZENITH)

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MODEL	CELL TYPE	CAPACITY	PRICE
Battery Motorola Flip Series/TeleTAC	Ni-MH	1200mAH	$49
Battery Motorola Elite	Lithium	1350mAH	$80
Battery Motorola StarTac	Ni-MH	600mAH	$49
Battery Motorola StarTac Auxiliary	Ni-MH	600mAH	$49
Battery Motorola StarTac Main	Lithium	1000mAH	$90
Battery Motorola StarTac Auxiliary	Lithium	1000mAH	$90
Battery Ericksson (All models)	Ni-MH	1200mAH	$45
Battery Audiovox (All models)	Ni-MH	1200mAH	$49
Cellular phone cigarette lighter charger/saver (all models)			$19

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(305) 418-4149
National Fax Line:
(305) 418-4277
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Miami, FL 33122
Monday-Friday
9am-7pm
Saturdays
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1-800-634-2298

www.memman.com

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IMPAC

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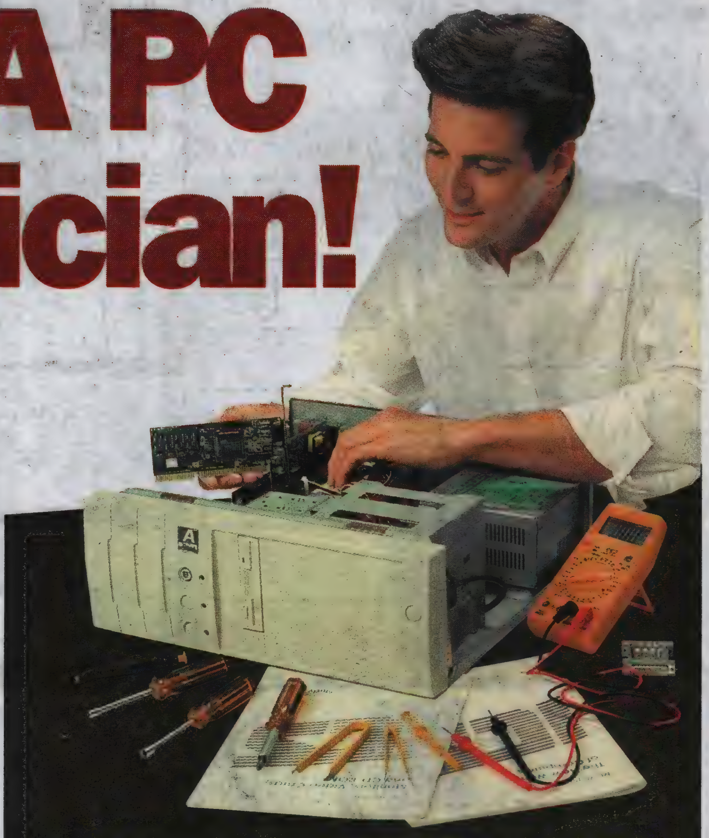

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☐ 36 Visual C++
☐ 82 Java
☐ 69 COBOL*

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Street ______________________ Apt. # ________
City/State ______________________ Zip ________
Phone (   )______________________

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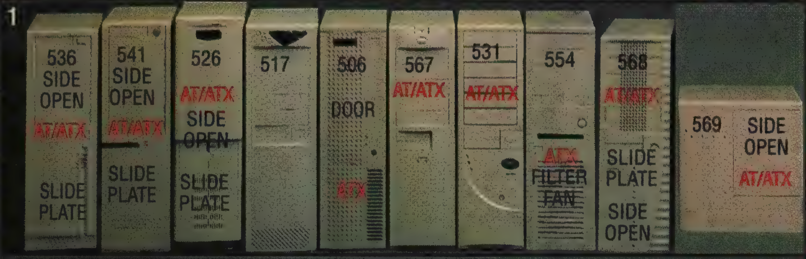
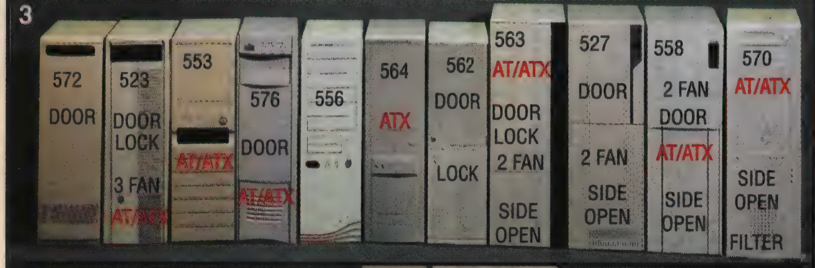

1
536 SIDE OPEN AT/ATX SLIDE PLATE
541 SIDE OPEN AT/ATX SLIDE PLATE
526 AT/ATX SIDE OPEN SLIDE PLATE
517
506 DOOR ATX
567 AT/ATX
531 AT/ATX
554 ATX FILTER FAN
568 AT/ATX SLIDE PLATE SIDE OPEN
569 SIDE OPEN AT/ATX


3
572 DOOR
523 DOOR LOCK 3 FAN AT/ATX
553 AT/ATX
576 DOOR AT/ATX
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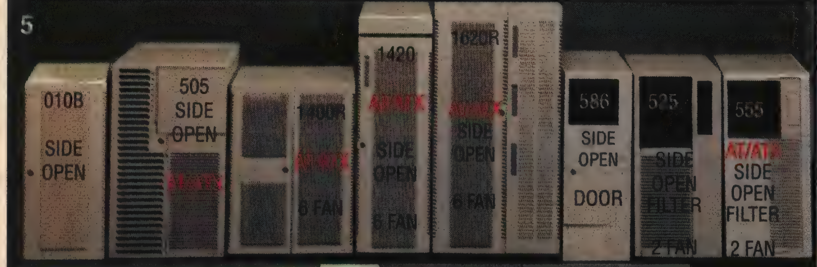
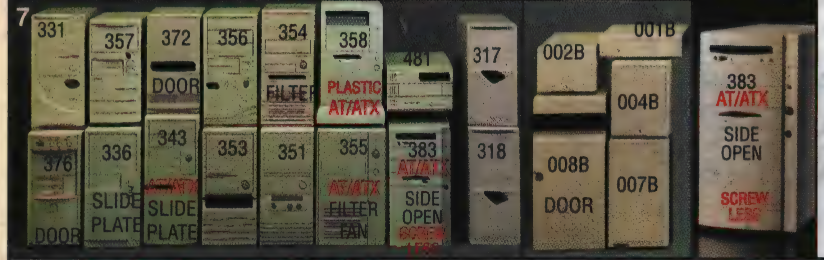
564 ATX
562 DOOR LOCK
563 AT/ATX DOOR LOCK 2 FAN SIDE OPEN
527 DOOR 2 FAN SIDE OPEN
558 2 FAN DOOR AT/ATX SIDE OPEN
570 AT/ATX SIDE OPEN FILTER


5
010B SIDE OPEN
505 SIDE OPEN AT/ATX
1400R AT/ATX 6 FAN
1420 AT/ATX SIDE OPEN 6 FAN
1620R AT/ATX SIDE OPEN 6 FAN
586 SIDE OPEN DOOR
525 SIDE OPEN FILTER 2 FAN
555 AT/ATX SIDE OPEN FILTER 2 FAN


7
331
357
372 DOOR
356
354 FILTER
358 PLASTIC AT/ATX
481
376 DOOR
336 SLIDE PLATE
343 AT/ATX SLIDE PLATE
353
351
355 AT/ATX FILTER FAN
383 AT/ATX SIDE OPEN SCREW LESS
317
318
002B
001B
004B
008B DOOR
007B
383 AT/ATX SIDE OPEN SCREW LESS

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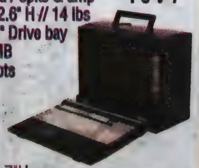
DUAL SCAN, TFT / 2/4MB VGA
1 x 5.25", 2 x 3.5" DRIVE BAY
105 key/glide Pad/ spks & amp
250W SS P.S. / 8 slots
15.7" W 8.5" D 12"H //15lbs

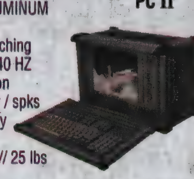
LCD PC I8



PC V-7

11.3", 12.1" / 800 x 600, 1024 x 768
DUAL SCAN, TFT // 2MB / 4MB VGA
105 Key/glide pad / spks & amp
15.7" W 7.9" D 12.6" H // 14 lbs
2 x 5.25", 2 x 3.5" Drive bay
ATX / BABY AT MB
250W P.S. / 7 Slots

Please call for System Configurations



PC II

10.4" , 12.1" TFT 800 x 600 2MB VGA
2 x 5.25", 1 x 3.5 DRIVE BAY 5 SLOTS
CNC High-Impact ALUMINUM
2xfans forced air flow
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Over-heating protection
BABY AT MB / 105key / spks
Shock mount drive bay
UL, CSA, FCCB
16.5" W 9.3"D 11.2"H // 25 lbs

PC V-8

15.7" W 7.5"D x 11.7"H
2 x 5.25", 2 x 3.5" / 8 SLOTS
9.5", 11.3" /MONO, TFT
800 x 600/2 MB VGA
640 x 480/512K // 104 Key

(RAIDSP/ FAN)
$25/$85(wide)

HD COOLER $23

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250W/X...............$48/55
300W/X...............$65/75
400W/X............$150/170
THERMO FAN + $10
*X: ATX POWER SUPPLIES

ATT SIZE (8 3/8 x 6 x 5 7/8)
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250W $50
300W/X............$75/90
400W/X........$150/170
500W $235
600W $300

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- Energy efficiency rating > 75% reduces system costs
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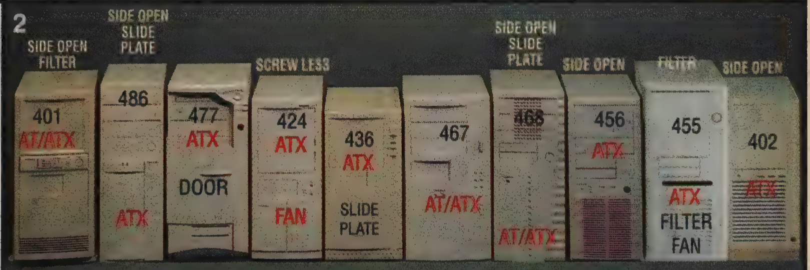
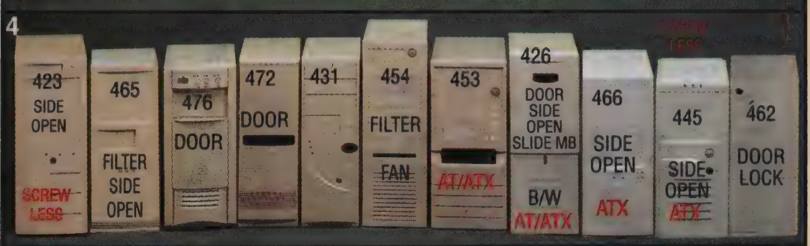
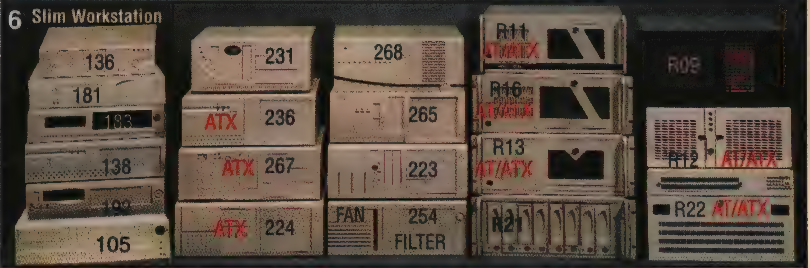

2
SIDE OPEN FILTER
401 AT/ATX
SIDE OPEN SLIDE PLATE
486 ATX
477 ATX DOOR
SCREW LESS
424 ATX FAN
436 ATX SLIDE PLATE
467 AT/ATX
SIDE OPEN SLIDE PLATE
468 AT/ATX
SIDE OPEN
456 ATX
FILTER
455 ATX FILTER FAN
SIDE OPEN
402 ATX


4
423 SIDE OPEN SCREW LESS
465 FILTER SIDE OPEN
476 DOOR
472 DOOR
431
454 FILTER FAN
453 AT/ATX
426 DOOR SIDE OPEN SLIDE MB B/W AT/ATX
466 SIDE OPEN ATX
445 SIDE OPEN ATX
462 DOOR LOCK


6 Slim Workstation
136
181
183
138
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105
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ATX 236
ATX 267
ATX 224
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265
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FAN
254 FILTER
R11 AT/ATX
R16 AT/ATX
R13 AT/ATX
R21
R09
R12 AT/ATX
R22 AT/ATX

BARE PENTIUM / 486 SLIM WORKSTATION

MODEL/ SPECS	Dimension W.D.H	MB	CHIP SET	3.5"	5.25"	PCI	ISA	VGA	Sound	KB MOUSE
105L	12.4x14.2x3.5	AIO, 2USB Lan	SiS	2	1	1	1/2	1MB	Yes	PS2
136	11.8x13.5x3	Pent. AIO	VX	2	0	1/2	1	1MB	No	AT
138L	14x14.5x3.6	LPX AIO	VX	2	1	1/2	1	1MB	No	PS2
181(2)E	14x15x3	ECS LPX-TX	TX	2	0	1/2	1	2MB	Yes	PS2
138G	14x14.5x3.6	ECS Cyrix200	GX86	2	1	1/2	1	1MB	Yes	PS2
183L	13.7x15x3	LPX AIO	VX	2	1	1/2	1	1MB	No	PS2
192L	13.2x16.5x3.5	LPX AIO	VX	2	1	1/2	1	1MB	No	PS2

Case Specification & Price List

Model	Price	Dimension W.D.H.	MB Size	5.25 Ext./Int.	3.5 Ext./Int.	P.S.
R09	1450	19x16.7x8.6	B	1/0	1/1	250W
R11B/W/X	295/305	19x18x7	B/ATX	2/0	1/2	250/250X
R12/X	305/325	19x19.7x7	B/ATX	4/0	1/0	250W/250X
R13B/W/X	305/325	19x18x7	B/ATX	3/0	0/1	250W/250X
R16/X	305/320	19x18x7	B/ATX	3/0	1/2	250/230X
R21B/W	375	19x18x7		8/0		300W
R22/R	650/950	19x23.3x10.5	F	8/0	1/0	300/300x2R
R22X/R	670/1075	19x23.3x10.5	F	8/0	1/0	300X/300Xx2R
001B	80	10x11.5x3		1/0		60W
002B	100	6.9x14.6x5.8		2/0		60W
004B	128	6.8x15.3x9.3		4/0		230W
007B	215	7x15.8x13		7/0		250W
008B	285	8.4x20.2x18.3		8/0		300W
010B	375/450	10x19.5x24		10		300/400
105Bare	350	12.4x14.2x3.5	AIO	1/0	1/1	85W
136	90	11.8x13.5x3	AIO	0/0	1/1	80W
138 LPX	90	14x14.5x3.6	LPX	1/0	1/1	100W
181 LPX	90	14x15x3	LPX	0/0	1/1	150W
183 LPX	105	13.7x15x3	LPX	1/0	1/1	150W
192 LPX	90	13.1x16.5x3.5	LPX	1/0	1/1	100W
223	85	17.1x16.4x6.2	B	3/0	2/2	230W
224	96	17.4x18.8x6.1	ATX	3/0	2/2	230WX
231	65	14.3x16.5x7	F	3/0	1/1	230W
236X	96	17.5x17.75x6	ATX	2/1	2/1	230/X
254	90	17x16.3x6.3	B	3/0	2/2	250W
265	85	16.8x16.8x6.3	B	3/0	2/2	230W
267	96	16.8x16.8x6.2	ATX	2/0	2/1	230WX
268	96	16.3x16.8x6.8	ATX	3/0	1/2	230WX
317	65	7.2x16.3x13	B	2/0	2/1	230W
318	75	7.2x16.3x14.8	B	3/0	2/1	230W
326B/W	75	7x17.3x14.5	B	3/0	1/2	230W
331	55	7x16.3x14.3	B	3/0	2/2	230W
336	85	7.3x16.5x15.3	B	3/0	2/3	250W
343/X	95	7x16.5x16.7	B/ATX	3(2)/0	2/2	250/230X
351B/W	95	7x16.5x15.3	B	3/0	2/3	250W
353B/W	95	7x16.5x15.3	B	3/0	2/3	250W
354	105	7x16.5x15.3	B	3/0	2/3	250W
355	110	9.5x16.6x15.2	ATX	3/0	2/1	250X
356	65	7.1x16.1x15	B	3/0	2/2	230W
357	70	7x16x13	B	2/0	2/1	230W
358	100	9.5x16.6x16	ATX	3/0	1/3	230X
372B/W	75	7x16.3x13	B	2/0	2/1	230WF
376	85	7x17x15	B	2/1	2/2	250W
383	100	8.3x16.8x16.1	ATX	3/0	1/3	230WX
401/X	115/120	8.5x17.3x18	F/ATX	3/2/0	2/2	250/230W
402	110	8.3x16.3x17.8	ATX	4/0	1/2	230WX
423	85	7.7x16.6x18.1	B	4/0	1/4	250W
424	110	7.5x18.9x16.7	ATX	4/0	2/1	250WX
426B/W	110	7.5x17.5x19.3	F/ATX	3/0	2/2	250W/X
431	65	6.8x16.5x18.5	F	3/0	2/3	250W
436	110	8.7x18x15.7	ATX	3/0	2/2	230WX
445	110	7.5x17.2x15.7	ATX	3/0	1/2	230WX
453B/W	110	8.5x17.5x18.5	F	4/0	1/4	250W
453X	125	8.5x17.5x18.5	ATX	4/0	0/5	250WX
454	115	7.5x16.5x20.8	B	5/0	2/5	250W
455	120	8.5x17.5x18.6	ATX	4/0	2/3	250X
456	110	7.5x18.5x17	ATX	3/0	2/3	230WX
462	90	6.8x16.4x16.5	B	3/0	2/2	250W
465	90	7.4x16.3x17	B	3/0	2/2	250W
466	110	7.4x18.8x16.8	ATX	3/0	2/3	250WX
467	110	9.3x17x17.5	ATX	3/0	2/4	250WX
468	110	7.5x16.7x18.8	ATX	3/0	2/2	250WX
472B/W	90	6.8x16x18.5	F	3/0	2/3	230WF
476	105	8x16.3x17.8	B	3/1	1/5	250W
477	115	8.5x17.5x18.6	ATX	4/0	1/4	250WX
481A	80	8.8x17.3x6	B	1/0	1/1	150W
486	110	6.7x15.8x19.3	ATX	3/0	1/3	230WX
505/R	800/1100	14.6x23x26.8	F	12/0	1/8	600/400x2R
505X/R	925/1150	14.6x23x26.8	ATX	12/0	1/8	300X2/400X2R
506/R	140/550	7.8x17.3x24.4	ATX	6/0	2/2	230/300Xx2R
517	125	8x16.4x24.8	F	5/1	2/1	250W
523R/XR	730/760	8.1x19.1x25.8	F/ATX	9/2		300X/300X2R
525	480	11.3x21x25.8	F	5/7		400W
526B/W	135	7.5x17.5x24.5	F/ATX	6/0	1/4	250/X
527	170	8.7x17.9x26.8	F	6/4	0/0	300W
531/X	85/100	7.5x16.6x24.4	F/ATX	6/0	2/3	250W/250X
536X	120	7.8x17x24	ATX	5/0	1/5	230WX
536X	140	7.8x17x24	ATX	5/0	1/5	300WX
541X	135	7.5x16.6x25.2	ATX	6/0	1/5	250WX
553B/W/X	130/145	7.5x17.5x24.3	F/ATX	4/0	1/4	250/250WX
554	140	7.5x17.5x24.5	ATX	4/0	1/4	250W
555B/W/R	480/750	11x19.3x23	F	4/8	0/0	400/300x2R
555X/R	465/820	11x19.3x23	ATX	4/8	0/0	300X/300Xx2R
556	100	7.5x16.5x24.5	F	6/0	2/3	250W
558/B/W/R	170/550	8.7x17.8x26.8	F	5/3	2/0	300/300x2R
558X	210	8.7x17.8x26.8	ATX	5/3	2/0	300WX
562	125	7.5x16.8x24.3	F	6/0	0/2	250W
563B/W/R	180/550	8.7x17.9x26.8	F	10/0		300/300x2R
563X/B/W	210	8.7x17.9x26.8	ATX	10/0		300X
564	120	7.5x17x24.5	ATX	6/0	2/2	250WX
567	135	7.5x16.5x24.5	ATX	5/1	2/2	250X
568	135	7.5x17x22.8	ATX	5/0	2/6	250X
569	220	13.5x17.8x14	B	4/2	0/8	300WB
569X	280	13.5x17.8x14	ATX	4/2	0/8	300XB
570/X	190/220	8.3x17.3x26.4	F/ATX	7/1	1/2	300B/300XB
570R/X	600/700	8.3x17.3x26.4	F/ATX	7/1	1/2	300x2/300Xx2R
572B/W	125	7.5x17x24.5	F	5/1	2/2	250WF
576/X	130/175	7.5x17.9x24.4	F/ATX	5/1	2/3(2)	250W/300X
1400R/X	900/1030	16x20x24	F/ATX	14		300x2/300Xx2R
1420R/X	920/1080	10x28.6x33	F/ATX	14		300x2/300Xx2R
1620R/X	1100/1230	16.5x20.3x34.3	Fx2/ATX2	16		300x2/300Xx2R

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Boca 112K DynamicDuo: Two Modems Are Better Than One

Cable modems, ISDN, ADSL, and satellite dishes: Until recently, this was the short list of options for users who wanted high-bandwidth Internet access at home. Not anymore. Boca Research's 112K DynamicDuo now offers a maximum theoretical speed of 106Kbps of bandwidth downstream and 67Kbps upstream over your plain old telephone service (POTS) lines.

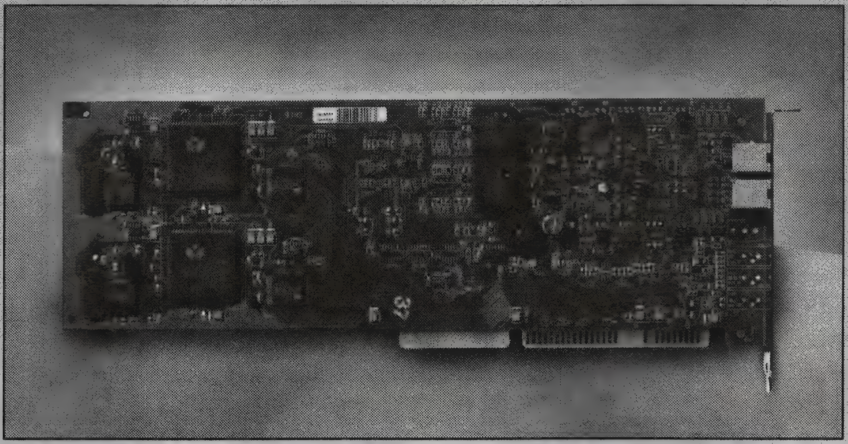
Boca 112K DynamicDuo

Boca Research
1377 Clint Moore Rd.
Boca Raton, FL 33487-2732
561-997-6227
www.bocaresearch.com
List Price: $279

Boca has integrated two K56flex modems on a single board, so you'll either need two RJ-11 (standard single-line phone socket) jacks or one RJ-14 (standard two-line phone socket) jack to use the DynamicDuo. Plus, if your ISP doesn't allow for multiple logins on a single account, you'll need to get two separate accounts.

Setup was fairly straightforward. However, since the DynamicDuo comes on a full-length ISA board, you might be hard-pressed to find a slot with enough clearance. In addition, if you happen to be using two independent phone lines instead of a dual-line jack, you'll need to purchase a line splitter and coupler from your local electronics store. We would have liked to see these extras included with the modem.

The DynamicDuo ships with a special edition of MidCore Software's MidPoint Teamer, which binds both physical 56Kbps connections into one logical 112Kbps pipeline. This is done by splitting browser and file requests over both modems and then recombining the independent data streams from the remote server.


The Boca 112K DynamicDuo integrates two K56flex modems on a single board.

Unlike Diamond Multimedia Systems' 112K SupraSonic II modem, which uses Shotgun technology, the DynamicDuo doesn't require your ISP to use Ascend Communications' equipment, which is currently used by approximately 85 percent of ISPs on the server end. But like the SupraSonic II, if an incoming call comes in on your second line, the DynamicDuo will give up that line and let the caller ring through while still using the first line for data transmissions.

To test real-world performance, we downloaded three file types: text, executable, and fully compressed. For the text file, a highly compressible file type, we clocked the DynamicDuo at 142Kbps. In comparison, a Motorola ModemSurfr 56K external single-line modem transferred at 79Kbps. On the executable, a semicompressible file type, we got a 95Kbps throughput, compared with 62Kbps for the Motorola. On the last test, with a fully compressed file, we got a 68Kbps transfer, compared with 44Kbps for the Motorola. Our connection rates ranged from 90Kbps to 88Kbps on unimpaired lines.

No doubt, there are faster solutions out there for home Internet access, such as ISDN and cable modem technologies. But these alternatives are pricier and often involve more complicated installations. If you're looking to maximize your cost per performance, for $279 for the modem and the cost of an additional phone line, you can't go wrong with the Boca 112K DynamicDuo.

—Arie Moller

ClipMate 4.5 Puts Power Into Cut and Paste

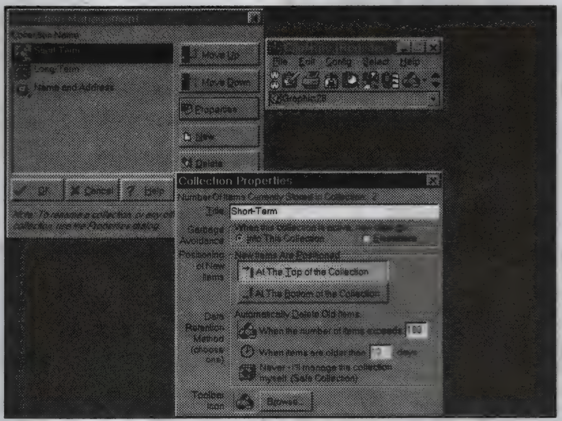
Several clipboard extenders are on the market today. Most let you keep multiple text clips active on the clipboard. Some handle graphics clips; others let you view clipboard contents or paste from a previously saved clip list. Only Thornsoft Development's ClipMate 4.5 does it all and more. In this latest release, ClipMate 4.5 comes to the 32-bit platform for Windows 95 and Windows NT and brings some exciting new functions. The software ships with both 16- and 32-bit versions included.

ClipMate 4.5

Thornsoft Development
P.O. Box 26263
Rochester, NY 14626
716-352-4223
Fax: 716-352-7847
www.thornsoft.com
Requires: 1MB hard drive space; Windows 95 or Windows NT
List Price: $25

You simply copy, cut, or paste text or graphics as you normally would. ClipMate stores every item, ready for use when you need it. ClipMate's clever way of organizing groups of clips is called Collections. The program comes with two default collections: Short Term and Long Term. Short Term holds data for 10 days or the 100 most recent clips, while Long Term never deletes anything, unless you do so manually. You can also create user-defined collections; data retention parameters can be adjusted to suit your needs. This latest version of ClipMate also allows for collections to be shared via a local-area network—these "read-only" collections can be saved on a network directory and shared between team members.

PowerPaste lets you sequentially paste the items from a collection into a document. This feature can minimize shifting between applications when you need to insert a series of clips. A new feature called QuickPaste lets you paste from within your target application. By using the hotkey combination Ctrl+Shift+Q, you can open the QuickPaste menu, select an item from the current or any other collection, then press Enter to insert the item.



ClipMate 4.5 lets you collect and manage any item you copy, cut, or paste.

You can access ClipMate from your system tray icon. The pop-up taskbar lets you quickly view what's on the clipboard, select a PowerPaste order (bottom to top or top to bottom) for inserting a series of clips, erase an item on the clipboard, print items from the clipboard, glue clipboard items together, toggle between collections of clips, or move items between collections.

ClipMate's new print engine includes intelligent word wrap, bitmap scaling, margins, font selection for text items, and multiple clips per page. Both a quick-print option that suppresses the printing dialog box and a print-preview option are available.

ClipMate 4.5 can best be called a simple but powerful utility that turns your clipboard into a more productive tool.

—Amee Abel

Guard Dog Deluxe Is on the Prowl Against Cyber Intruders

As the Web continues to grow, so does the need for personal privacy and security. Every time you visit a Web site, download a software file, or retrieve e-mail, you run an increasing risk of exposure to damaging viruses, electronic eavesdropping, and worse. CyberMedia's Guard Dog Deluxe provides consumer-level firewall protection, slamming the digital door on most hostile Net intruders. The program runs quietly in the background, monitoring every Internet connection for potentially harmful threats. The product works well with all Web browsers.

Guard Dog Deluxe

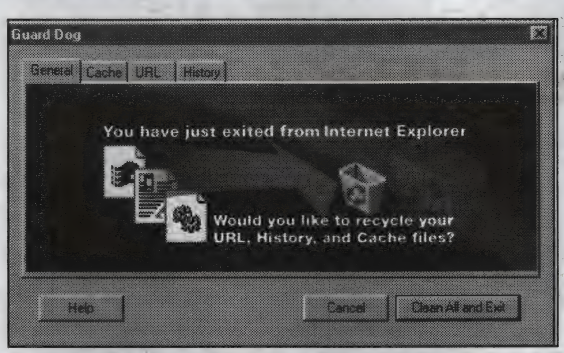
CyberMedia
3000 Ocean Park Blvd.
Ste. 2001
Santa Monica, CA 90405
800-721-7824; 310-581-4700
www.cybermedia.com
Requires: 17MB hard drive space; Windows 95; Internet connection
Mfr. Est. Price: $59.95

On installation, Guard Dog performs an initial audit of your system's security settings, scanning for viruses, listing all applications currently granted access to the Internet, and recommending your browser's security be set to high, if it's not already.

One of the most insidious threats to your Web security comes in the form of innocuous little "cookies." These small data files contain personal information and preferences that Web sites store on your computer the first time you visit. In most cases, cookies serve a good purpose and are completely harmless. Unfortunately, cookies can also be used by unethical Web sites to track your browsing habits, search queries, credit-card numbers, and a host of other information about who you are and what you do online.

Most new browsers can block these transfers, but make no distinction between good and bad cookies. Guard Dog analyzes the nature of the cookie and makes case-by-case recommendations on whether they should be downloaded. More important, the software can detect and prevent your stored cookies from being silently—and illegally—forwarded to other sites.

Guard Dog also automatically analyzes all incoming Java or ActiveX programs for suspicious behavior, including unseen attempts to access e-mail files, password lists, and other personal data.



You have just exited from Internet Explorer

Would you like to recycle your URL, History, and Cache files?

Guard Dog Deluxe can clean your browser's URL history and temporary cache files after you log off the Net.

On detection of an incoming cookie, or a Java or ActiveX applet, Guard Dog emits an audible bark and displays a warning message. Guard Dog then makes its recommendation as to whether the file transfer should be accepted or rejected. After you log off the Web, the program gives you the opportunity to delete all accumulated cookies and applets, as well as purge the browser's history records. Guard Dog prowls offline activities as well, alerting you to applications attempting to access your Internet account. A pop-up window lets you grant access just once, never, or always. Guard Dog can also purge your browser's history cache after each session so that no one can identify which sites you've been visiting.

Two bonus products packaged with Guard Dog include a special build of Trend Micro's online virus protection and a trial version of CyberMedia's own online update software, Oil Change.

Overall, Guard Dog Deluxe lets you freely surf the Web with an extra measure of security against cyber dangers both present and future—a highly recommended product for Internet travelers. ***—Scott A. May***

IPT Anzen I-800 Is Intelligent Data and Equipment Protection You Can Trust

Even if lightning never strikes twice in the same place, once is more than enough when Mother Nature fries your motherboard or hard drive. More common calamities, such as brownouts or power outages, can also corrupt irreplaceable data in a second. If you'd rather be safe than sorry, International Power Technologies' (IPT's) Anzen I-800 intelligent uninterruptible power supply (UPS) can be the best $555 you've ever spent.

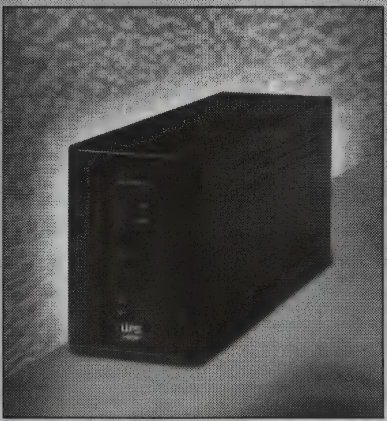
IPT Anzen I-800

International Power Technologies (IPT)
1197 S. 1480 West
Orem, UT 84058
800-944-0356; 801-224-4828
www.iptinc.com
List Price: $555

The I-800 fits in the range between small standby UPSs and commercial systems. The I-800 also offers true sine-wave power conditioning and enough battery power to operate 500 watts worth of equipment for up to 6 minutes during automatic shutdown. A bundled software utility and a serial-port link between your computer and the I-800 lets you monitor and test the UPS locally or over a network, easily schedule uptime and downtime, and intelligently shut down and power up peripherals in the order you specify.

To install the unit, just plug the I-800 into a three-pronged, grounded outlet. A site wiring fault detector alerts you if the AC ground wire is missing or operating incorrectly, or if the polarity of the power source is reversed. Connect your computer and the unit with the supplied serial cord (you'll need a free COM port), and then plug your computer, monitor, external modem, and other equipment into the four outlets on the back. Press a button on the front of the UPS to activate power conditioning and battery backup. There is also a pair of RJ-11 telephone-in and telephone-out jacks that provide spike protection for your modem.

To test the I-800, we plugged it in, charged the battery for the recommended period, powered up our 166MHz Pentium test system, and then disconnected the UPS's AC cord. Our monitor didn't even flicker (IPT says the line-to-battery transfer time is typically 2 to 4 milliseconds). The monitoring software began a 5-minute countdown, automatically saved open files, and shut down Windows 95. You can specify other shutdown periods, or configure the unit to disconnect nonessential equipment such as external modems or CD-ROM drives to preserve battery power. When burdened with only a 300-volt-amp (VA) load, the I-800 can provide up to 28 minutes of power.



At $555, the I-800 offers true sine-wave power conditioning.

The Anzen I-800 is rated at 800VA, enough power for even fully loaded Pentium servers or workstations, plus a monitor, modem, and external disk drives (but not a laser printer, which typically draws too much juice). This UPS can condition power and regulate voltage between 90 and 150 volts (for the 120-volt version; a 220-volt model is also available) without using the battery, saving wear and tear on your battery.

You can't take all that power lightly: The I-800 is housed in a bulky 7.7x5x16.8-inch (HWD) case, and with its two maintenance-free sealed-lead acid batteries, it weighs 32.3 pounds. The batteries, good for three to six years, can be replaced while the UPS is running. IPT backs this system with a five-year warranty (two years on the batteries) and provides $50,000 worth of equipment coverage.

If you can't afford to have your equipment (or your data) go up in smoke, you'll want to consider a UPS with the features of the IPT Anzen I-800. ***—David D. Busch***

TrackMan Marble FX Is a Trackball With a Smooth Touch

There's a new way to hold hands with your PC. Logitech's TrackMan Marble FX reinvents the familiar trackball with features such as a striking space-age profile, an unusual dual-access ball mount, ultrasensitive optical ball tracking, and robust button-programming capabilities.

TrackMan Marble FX

Logitech
6505 Kaiser Dr.
Fremont, CA 94555
800-231-7717; 510-795-8500
Fax: 510-792-8901
www.logitech.com
Mfr. Est. Price: $99.95

The TrackMan's ergonomic design incorporates a wrist support, four contoured buttons, and a large weighted trackball covered with tiny dots. Nonskid rubber pads and a center of gravity that falls under your fingertips help it grip the desktop for stable operation during even the most frenzied game sessions. You can grab the ball from either side, making it easy to switch from a normal fingers-only grip to thumb-and-finger operation whenever you need more precise positioning.

Instead of a conventional rollers-and-wheels mechanism, the TrackMan uses Logitech's Marble ball-tracking technology, which combines neural network techniques and optical sensors to emulate the way a human eye would view the movement of the ball's dot patterns. This approach prevents the tracking problems that occur when friction-based mechanisms become clogged with dust and dirt.

The TrackMan Marble FX incorporates a wrist support, four contoured buttons, and a large weighted trackball.

The TrackMan provides two large mouse-style buttons that fall easily under your thumb and pinkie. Two smaller buttons rest next to your thumb and are designed to be pressed with a thumb tip or knuckle (although the size of your hand may make one of the buttons a little tricky to reach). All four buttons can be programmed to execute any of dozens of functions. You can set them up to auto-scroll; double-click; click and drag; center the cursor; or perform Windows operations such as opening an application, displaying the Win 95 Start menu, or minimizing a window. They can also be used to bring up custom menus of common Windows and Internet-browsing functions. Logitech's bundled MouseWare Control Center 7.51 provides all the other functions you'd expect from a comprehensive mouse driver, including control over pointer shape, mouse trails, and acceleration.

In our hands-on evaluation, installation was quick and painless. The TrackMan simply plugs into your machine's serial port or PS/2 mouse jack and is automatically detected by Win 95. Running through a quick customization wizard completes the configuration process. Any trackball can at first seem unwieldy to a mouse veteran, but we found ourselves comfortable with the TrackMan after only a few hours. The ball was responsive and glided smoothly under our fingers, and the unit's innovative button layout made it easy to use with subtle finger movements.

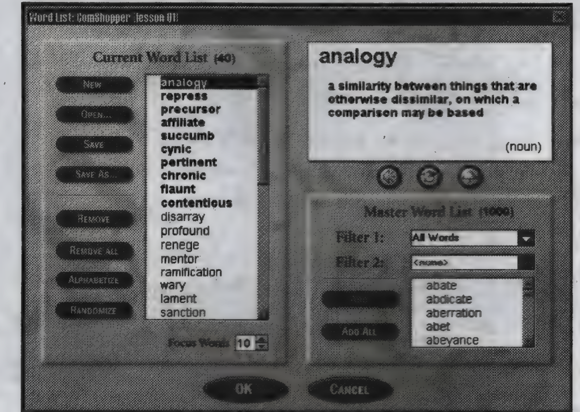
At $99.95 estimated, the TrackMan Marble FX isn't cheap. But it is packed with features, easy to install, and a pleasure to use.

—Don Labriola

Be the Master of Your Words With Lexio's *WordCommand 1.0*

Back in high school, there were two types of students—those who were ready for the SATs and those who were not. Lexio Corp.'s WordCommand 1.0 promises to help studious and not-so-studious kids alike improve their verbal scores, and it can help anyone else who is interested in improving vocabulary.

WordCommand contains a total of 1,000 words, which are grouped into 20 lessons. Each lesson contains 50 words, which are further divided into lists of 10 focus words. The program tests your knowledge of a word's meaning and usage one list at a time. The lessons are arranged in increasing level of difficulty. For example, in Lesson 1, you are presented with words such as "mundane" (ordinary, dull or routine) and "ostentatious" (overly conspicuous); in Lesson 5, you are tested on words such as "badinage" (good-humored jesting or banter) and "enervate" (to weaken or debilitate). We found that the range of difficulty was well-defined; the words in the first set of lessons were gauged to the level of high school SAT test-takers, and the last few lessons consisted of words that were more esoteric and complex. Lexio offers additional word sets that can be purchased through the company.



analogy

a similarity between things that are otherwise dissimilar, on which a comparison may be based

(noun)

analogy
repress
precursor
affiliate
succumb
cynic
pertinent
chronic
flaunt
contentious
disarray
profound
renege
mentor
ramification
wary
lament
sanction

abate
abdicate
aberration
abet
abeyance

WordCommand 1.0 lets you see a word's usage, and learn its antonyms and synonyms.

WordCommand is thoughtfully designed without being overwhelming. The program allows you to select a word and listen to its pronunciation, see its usage, learn synonyms and antonyms for the word, and see variations. Words can also be flagged as either "mastered" words or "trouble" words, allowing you to skip known words and mark others for future review.

WordCommand 1.0

Lexio Corp.
P.O. Box 1400
Orem, UT 84059
888-388-9673; 801-222-9777
Fax: 801-235-9606
www.lexio.com
Requires: 6MB hard drive space, Windows 3.x or Windows 95
Mfr. Est. Price: $39.95

Families can customize the program for each member, having it present various levels of word difficulty depending on who's using it. As a parental teaching tool as well as for self-instruction, the program offers flash cards and quizzes to test knowledge and mastery.

The AutoQue feature provides additional reinforcement of the program's lessons. A dialog box pops up periodically to let you review individual words and also to test you via a pop quiz (you can set the time intervals between occurrences). This function, while sensible for younger users, has a tendency to become distracting after a while—the program gives you the option of shutting off the AutoQue feature.

Perhaps the most effective and visually appealing aspect of WordCommand is its use of a screen saver that presents your current word list with its definition, usage, and synonyms. The screen saver alone with its variable display settings is enough to warrant the purchasing of the program.

Still, the package is not without its flaws. Its most glaring deficiency is its nonconformance with simple Windows standards—for example, it lacks support for long filenames and a minimize function across all window views. However, as a whole, Lexio's WordCommand should be a welcome addition to almost anyone's software library. ***—Egan Lo***

SECTION CONTINUES ON PAGE 428

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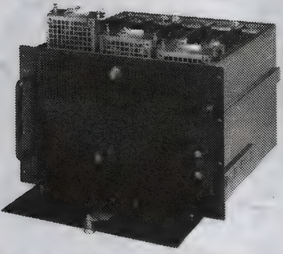
Quality. **Working for you Around the Clock**

Rackmount Computers

APPRO

7000HT CTI/Network Applications

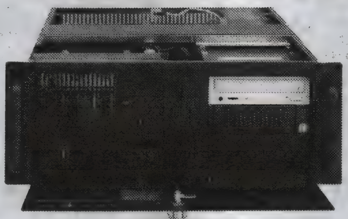


- 8 to 14 slots BP, AT, ATX Motherboard Support 5 drive bays
- Hot Swap PS (300, 400W AC, 300W DC, 230W ATX) or Single PS
- Fan fail & over-temp alarm-visual & audible (optional)
- 82CFM cooling fans, optional dual 56CFM cooling fans
- Chassis only available
- 19"(W) x 7"(H) x 20"(D)

Computer Telephony 1·9·9·7 Product of the Year

Rock Solid Fault Tolerant Protection

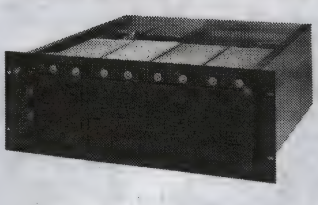
COMPACT - 4200



Fault Resilient System

- 8 to 14 slots BP, AT, ATX Motherboard Support 5 drive bays
- Hot Swap PS (300, 400W AC, 300W DC, 230W ATX) or Single PS
- Fan fail & over-temp alarm-visual & audible (optional)
- 82CFM cooling fans, optional dual 56CFM cooling fans
- Chassis only available
- 19"(W) x 7"(H) x 20"(D)

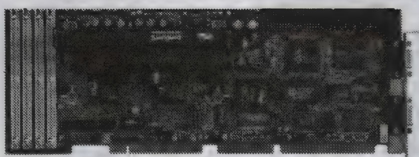
4080H RAID Subsystem



- Eight 5.25" Drive Bays
- Dual Hot Swap PS-400W(AC) or 300W(DC)
- Hot Swap Removable Drives Option
- RAID Level 0, 1, 3 & 5 Support
- 19"(W) x 7"(H) x 20"(D)

RAID

SBC - Pentium® II

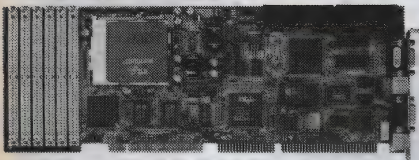


NEW

- **CPU:** Pentium® II 233-300MHz
- **Cache:** 512K Level II Cache built in CPU
- **Memory:** 8 to 256MB, FPM, EDO, BEDO & ECC SIMM
- **Chipset:** Intel® 440FX
- **BIOS:** Award plug and play
- **On Board I/O:** PCI Bus Master (E)IDE, FDD, 16550 UART Serial, EPP/ECP parallel, USB, PS2 mouse and keyboard
- **Video:** ATI Mach 64 PII video w/ 2MB

5 YEAR WARRANTY

SBC - Pentium® MMX™



MMX

- **CPU:** Intel®, AMD or Cyrix CPU with MMX™ Technology Up to 233MHz for P55C Pentium® Processor
- **Cache:** 512K Pipe Line Burst Cache
- **Memory:** Up to 384MB- FPM, EDO or ECC memory
- **BIOS:** AWARD Plug & Play BIOS
- **Chipset:** Intel® 430HX Chipset
- **On Board I/O:** PCI Bus Master (E)IDE, FDD,16550 UART Serial, EPP/ECP Parallel, USB,PS2 Mouse & Keyboard
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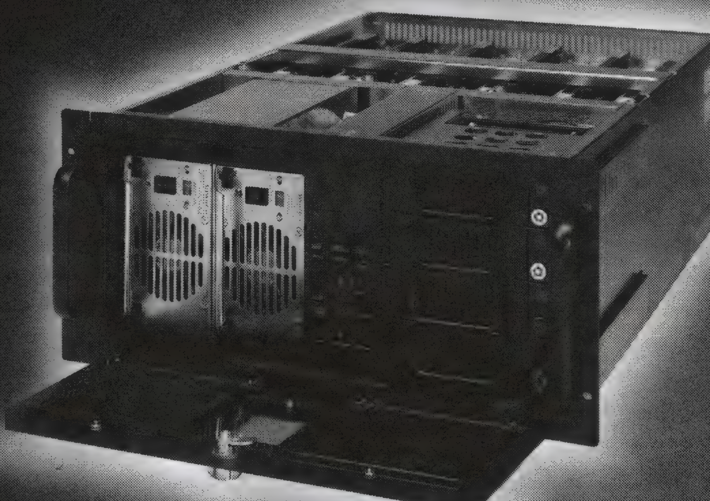

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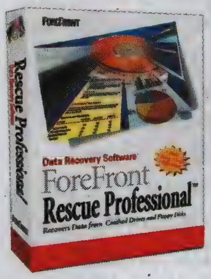

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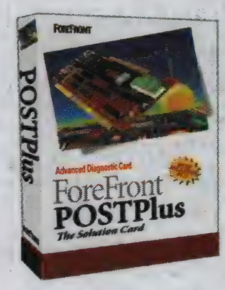

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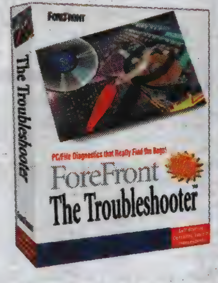

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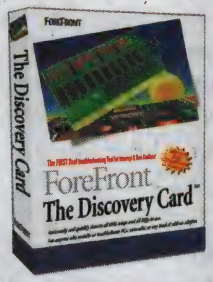

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WINDOWS MAGAZINE 1995 WIN 100

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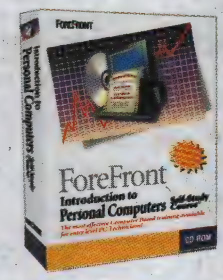

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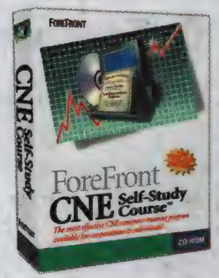

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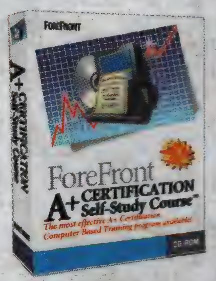

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CS

Mediterranean Travel Planner: A Dependable Traveler's Guide

Like having your own personal travel agent, PlanetWare's Mediterranean Travel Planner is the perfect companion for visitors of this southern European region. As an enticement for tourists still pondering their vacation destination, however, the program's dry presentation falls slightly short.

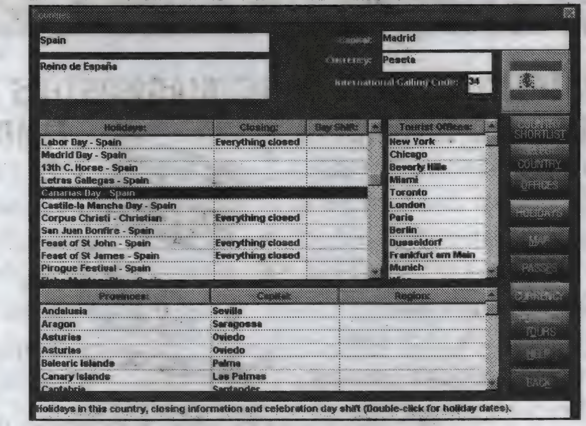
Mediterranean Travel Planner

PlanetWare
10 Kensington Dr.
Richmond Hill, ON L4E 3M9
Canada
800-281-9823; 416-410-1886
www.planetware.ca
Requires: 16MB hard drive space; Windows 3.x or Windows 95
Mfr. Est. Price: $44.95

Travel Planner covers 11 countries of the Mediterranean region, including Greece, Egypt, Israel, Italy, Spain, and Turkey. The program's main screen features a small windowed display, flanked by menu buttons that let you alter the program's default setup, search, plan itineraries, read practical information, view maps and slide shows, and access online help. Navigation is simple and straightforward, as you use buttons to move forward and backward through each section.

Slide shows consist of hundreds of color maps and photographs, viewed in either 8- or 16-bit formats. The program's collection of scanned maps ranges from topographical to detailed street-level diagrams. Unfortunately, a large majority of these maps are so small and blurry that the information they convey is obscured. The photos are small and cannot be enlarged. They're also amateurishly shot and often poorly composed. On the plus side, these photos evoke authenticity, showing exotic locations from a tourist's-eye view.

The software's best features are its travel planner and bounty of information on key tourist hot spots. The travel planner lets you create, modify, and print agendas, which can be either hand-picked or part of an established tour package. The section on practical information contains a collection of wisdom on subjects such as travel tips, national information, holidays, currency, addresses, and travel distances. Attractions and events are well-organized into 140 special-interest categories, along with detailed descriptions, locations, and phone numbers. If you're toting a notebook computer on your trip, this software could prove an invaluable resource.


Spain
Reino de España
Capital: Madrid
Currency: Peseta
International Calling Code: 34

Holidays:	Closing:	Day Shift:
Labor Day - Spain	Everything closed	
Madrid Day - Spain		
13th C. Horse - Spain		
Letras Gallegas - Spain		
Canarias Day - Spain		
Castile-la Mancha Day - Spain		
Corpus Christi - Christian	Everything closed	
San Juan Bonfire - Spain		
Feast of St John - Spain	Everything closed	
Feast of St James - Spain	Everything closed	
Pirogue Festival - Spain		

Tourist Offices:
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Chicago
Beverly Hills
Miami
Toronto
London
Paris
Berlin
Duesseldorf
Frankfurt am Main
Munich

Provinces:	Capital:	Region:
Andalusia	Sevilla	
Aragon	Saragossa	
Asturias	Oviedo	
Asturias	Oviedo	
Balearic Islands	Palma	
Canary Islands	Las Palmas	
Cantabria	Santander	

Holidays in this country, closing information and celebration day shift (Double-click for holiday dates).

Mediterranean Travel Planner works best as an information resource, not as a multimedia enticement for tourists.

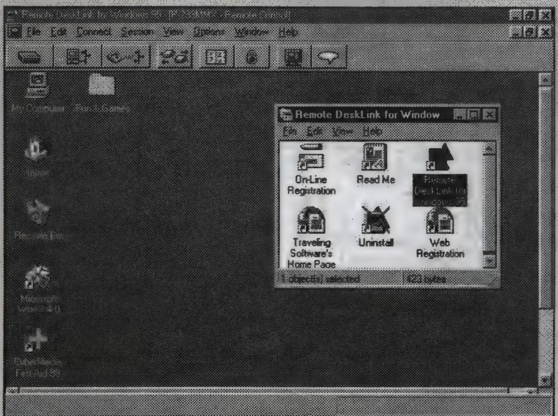
Without a doubt, the product's biggest downfall is its total lack of multimedia elements. There's no sound or full-motion video to augment the information on each country—nothing, in fact, beyond static snapshots to excite the senses, promote tourism, or convey the flavor of each unique culture. The end result is a stale presentation of the facts that doesn't live up to the company's slogan, "Discover a world of excitement, adventure, and romance at your fingertips." Though we can accept that this software is strictly an informational travel planner, it seems a shame that the producers couldn't liven up the material and lure visitors with samples of local culture.

If you're pondering where to go on your next vacation, Mediterranean Travel Planner makes no overt attempts to sell you on a destination. But if you've already decided on the Mediterranean region as your choice locale, PlanetWare's expert guide offers a wealth of practical information.

—Scott A. May

Access Your PC Remotely With Traveling Software's *Remote DeskLink*

At some time, we've all wished we could be in two places at once. Now we can—at least in the virtual world of personal computing—thanks to remote-access applications like Traveling Software's Remote DeskLink. The program lets you operate a Windows 95 PC from a remote location, linked via modem, network, or Internet connection. Remote DeskLink, unlike LapLink and other higher-priced remote-access software products, is designed for users who don't wish to—or can't—fuss with complicated configurations.



Remote DeskLink lets you easily control one PC from another location.

Simplifying Remote DeskLink, however, means making certain sacrifices in features. As a result, DeskLink can't transfer files—either host-to-client or vice versa. There is a shared Windows 95 clipboard function that lets you copy and paste information, including individual files, from one screen onto another.

Theoretically, operating Remote DeskLink couldn't be simpler. Just install the program on two remote PCs, and you're ready to go. Once loaded, the application sets your modem or network connection to auto-answer. Three levels of security let you designate who can access your PC remotely: nobody (private system), login list (user name and password required), or anyone (public system). Optional features include a chat window and various host security levels, including screen blanking, keyboard and mouse locking, and data encryption.

Unfortunately, our first attempt to use Remote DeskLink resulted in a blank remote window. According to the company's tech support, any non-Windows-95-certified video-card drivers, especially those that offer bitmap/font caching, Direct Draw, GDI patching, or other video-acceleration features, can cause this black-window effect. Solutions offered included disabling video acceleration, obtaining a non-GDI-patching video driver, or changing the host computer's video display to generic VGA or SVGA. This last suggestion worked fine, although doing so required switching drivers and rebooting the host computer before each remote session.

Once connected, the Remote DeskLink window becomes a mirror of the host computer's desktop screen, which can be operated in a window or at full screen. We tested the product using two remote computers connected with 33.6Kbps modems. Beyond the expected latency issue—which causes brief, intermittent delays when moving or clicking the mouse—the program performed well. We also tested remote control via dial-up networking, which proved equally smooth and allowed access to network files connected to the host.

Remote DeskLink

Traveling Software
18702 N. Creek Pkwy.
Bothell, WA 98011
800-343-8080; 425-483-8088
www.travsoft.com
Requires: 7MB hard drive space; Windows 95
Mfr. Est. Price: $49.99

Remote DeskLink is relatively inexpensive, costing about $20 less than its closest rival, Quarterdeck Corp.'s RapidRemote. However, Remote DeskLink is missing the ability to transfer files, a popular feature that RapidRemote and most other remote-access programs offer. If file transfer isn't important to you, and ease of use is, then Remote DeskLink is an economical choice.

—S.A.M.

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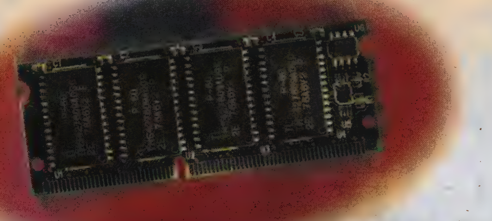

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Quantum Seagate FUJITSU Western Digital

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AcerNote 765, 782, 784, 786, 787, 788, 789	$46	$74		
AcerNote Pro 950 /C/P, 954, 955, 956, 957	$46	$74		
AcerNote Pro 958, 959 /S	$46	$74		
AcerNote Light 356, 358, 359, 361, 363	$49	$75	$165	
AcerNote Light 372, 373, 374, 382, 383, 384	$49	$75	$170	
AcerNote Nuovo 971, 972, 975, 970MMX	$49	$85	$170	

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Ascentia A41, A42, A60 Plus, A70 Plus	$49	$82	$175	$339
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Armada 4100, 4110 /D, 4120 /T, 4125D, 4130		$75	$164	$339
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ThinkPad 760C/CD/L/LD	$47	$99	$210	
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Extensa 600, 600CD, 605CD, 610CD/CDT	$46	$68	$145	
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Extensa 900, 900T, 900CDT	$44	$70	$145	
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SuperView Pro SVP300 19-inch Monitor Gives You More Screen to View

TeleVideo, long known for data terminals, recently released two lines of computer monitors: the economically priced SuperView Series, which is targeted toward SOHO and home users; and the SuperView Pro Series, which is aimed at graphics professionals and high-end corporate users. One of the latest models in the SuperView Pro Series, the 19-inch SVP300 is built around Hitachi's flat-square tube and, at $839, is relatively inexpensive.

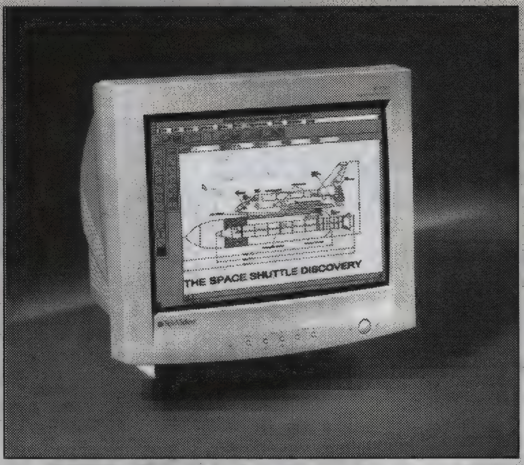
SuperView Pro SVP300

TeleVideo
2345 Harris Way
San Jose, CA 95131
800-835-3228; 408-954-8333
Fax: 408-954-0623
www.televideoinc.com
List Price: $839

Hitachi's coated tube affords a viewable area measuring 18 inches diagonally. It uses an Invar shadow mask with a 0.26mm dot pitch and has dynamic-focus circuitry, which varies the size of the electron beam as it sweeps across the screen. This technology maintains a uniform dot size onscreen, contributing to a sharply focused image.

The SVP300 has maximum resolution of 1,600x1,200 pixels at a refresh rate of 75Hz. It supports the VESA DDC1 and DCC2B Plug and Play standards, and meets the MPR II emission standard as well.

The front bezel contains a large power switch and five small buttons, which summon and operate the monitor's onscreen display (OSD). The two Select buttons, which let you scroll up and down through the menu, also offer direct access to brightness and contrast adjustments. Two other buttons let you increase and decrease the various parameters accessed via the OSD. The SVP300 offers basic control over image geometry (sizing, positioning, pincushioning, trapezoid, parallelogram, and rotation), as well as a few extras, such as preset color-temperatures, vertical and horizontal moiré, manual degauss, and scan-frequency information. There is also a handy recall option that resets the monitor to its factory settings.



The SVP300 offers 18 inches of viewable area using Hitachi's flat-square tube.

We connected the SVP300's removable D-sub cable to an ATI Xpert@Play card with 8MB of RAM and set the monitor for 1,280x1,024 at 85Hz. We used Sonera Technologies' Display Mate software to help adjust and test the monitor. The SVP300's brightness, contrast, and color reproduction were quite good, and it exhibited only minor misconvergence. Display Mate revealed that the monitor's controls were only partially effective in dispelling moiré patterns, however. Finally, when displaying a word processing program, the SVP300 lacked the sharper focus we've seen in higher-quality monitors.

The SVP300 has a solid set of features, though it lacks some of the amenities one expects in a high-end monitor—BNC connectors, adjustments for misconvergence and pincushioning balance, user-selectable OSD position, and a sharper image, to name a few. For those who want a larger screen and can live with its flaws, the SuperView Pro SVP300's low price makes it an appealing monitor. But if a true high-end 19-inch monitor is what you need, then be prepared to spend a little more and look a little further.

—Matthew Klare

The Wireless *AllController* Gives You Freedom of Movement

SelecTech's AllController is an infrared pointing device that is geared toward presenters who need more flexibility than an infrared trackball can offer. The AllController includes a conventional two-button mouse, an infrared trackball, and SelecTech's Aim-and-Select pointing capabilities.

The AllController connects to your PC via both a serial port and the keyboard connector, the latter providing power for the unit's infrared receiver. The AllController uses standard mouse commands, so if your system already has a Microsoft-compatible mouse, you won't need special drivers.

We tested the AllController on a 166MHz Pentium system running Windows 95 OEM Service Release 2. The AllController's keyboard jack is an older, larger version than the usual PS/2-style jack, and only one PS/2 adapter was supplied with our review unit even though two are needed to properly connect it. After we found a second PS/2 adapter, we connected the unit's IR receiver/tethered mouse to the PC's keyboard jack and piggybacked our keyboard onto it.

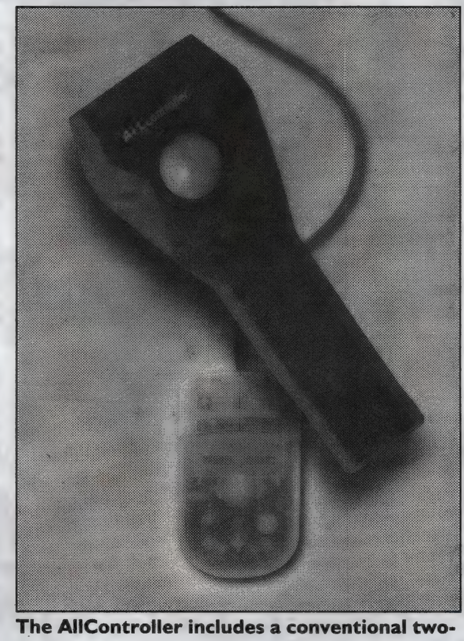
AllController

SelecTech
185 Allen Brook Ln.
Williston, VT 05495
www.selectechltd.com
802-878-9600
Fax: 802-878-9699
List Price: $109

Using AllController's conventional mouse unit was no different than using any other two-button mouse. Its clear plastic top, which houses the IR receiver, is curved to fit the hand, though the buttons lack contouring or finger rests.

The AllController remote resembles a Star Trek phaser and is fairly comfortable to hold and operate. The trackball, which is about three-quarters of an inch in diameter, rolls smoothly and offers decent cursor control. A large, triangular button in the center of the unit, just behind the ball, functions as the left mouse button. This is flanked on both sides by small, triangular buttons—the "right" buttons of the unit—making the remote friendly to both right- and left-handed users.

In AllController Aim-and-Select mode, you don't even have to use the trackball to control the cursor. You start by sliding a small switch on the side of the unit and then barely touching any one of the three triangular buttons to activate Aim-and-Select. You then point to the location onscreen where you want the cursor to be. The device tracks your hand movements and adjusts the cursor position accordingly.



The AllController includes a conventional two-button mouse and an infrared trackball.

Adjusting to Aim-and-Select mode took some time. Through we were able to click and drag items and otherwise navigate our desktop, cursor control was not very precise because the sensitive AllController translates all hand movements—even involuntary ones—into cursor movements.

Taken separately, the components of the AllController aren't particularly exceptional. The tethered mouse lacks the ergonomic styling and solid feeling of a Microsoft or Logitech device, and the IR trackball is decent but not outstanding. When you combine these two functions and add the Aim-and-Select feature, however, the AllController is a whole lot cooler, offering multiple functions at a comparatively low price.

—M.K.

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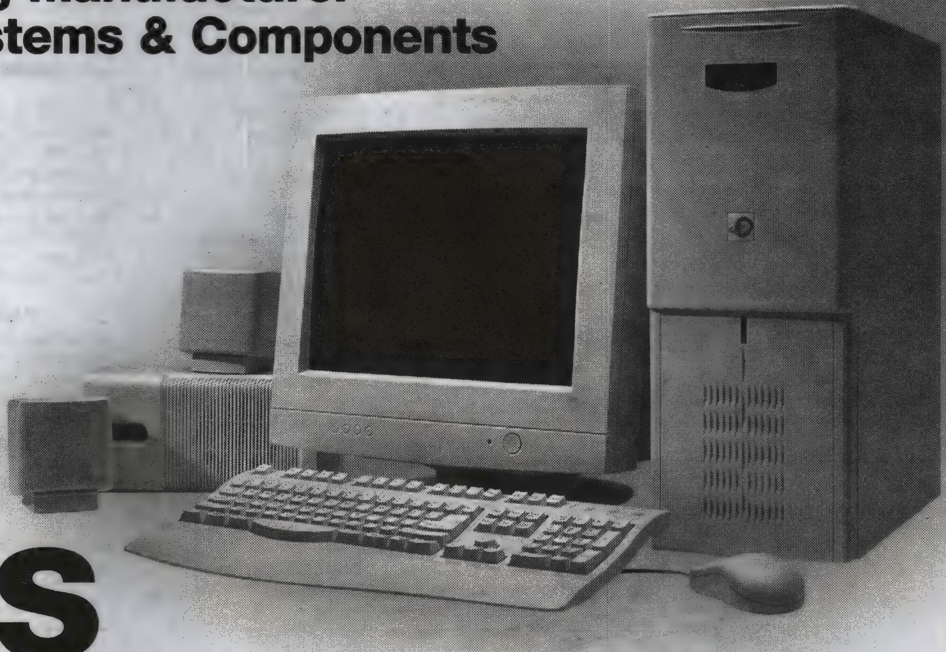

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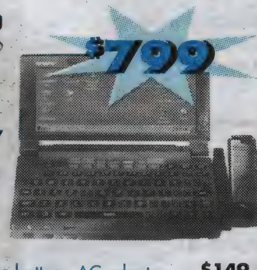

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Model	Price
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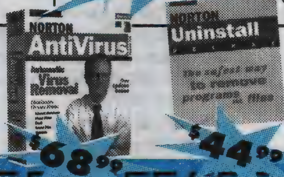

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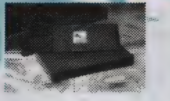

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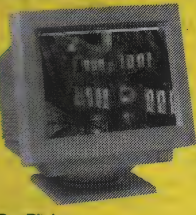

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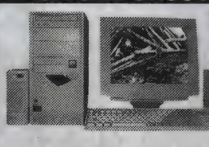

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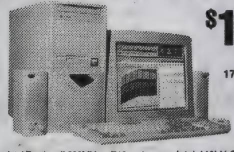

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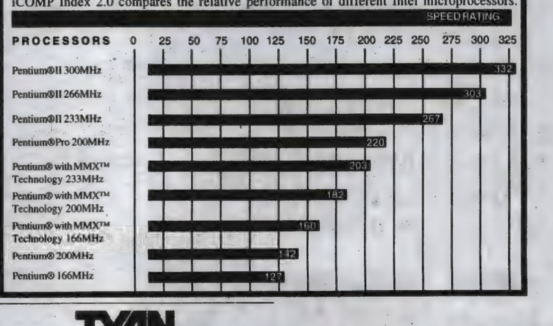

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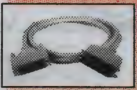

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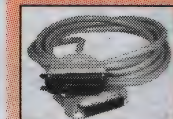

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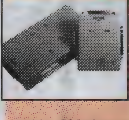

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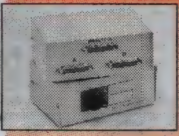

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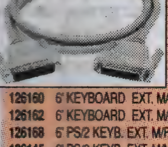

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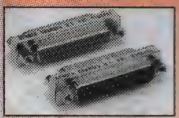

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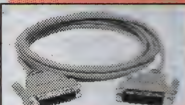

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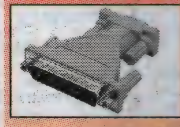


$3.75 UP

125902	AT ADAPTER (DB9M / DB25F)	$3.75
125900	1' AT ADAPT CABLE (DB9F-DB25M)	$3.95
125899	AT ADAPTER(DB9F/DB25M)	$3.75

KEYBOARD ADAPTERS

125928	PS/2 KEYBOARD ADPT (6F/5M)-REVERSAL	$3.99
125929	PS/2 KEYBOARD ADAPTER (6M/5F)	$3.99
125930	PS/2 KEYBOARD ADPT CBL (6M/5F)	$3.99

Y-MOUSE ADAPTERS

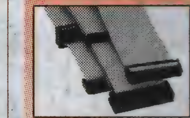
139014	DUAL SERIAL MOUSE ADAPTER	$47.45
139015	DUAL PS/2 MOUSE ADAPTER	$47.45
139016	DIGITIZER AND MOUSE ADAPTER	$56.95
139017	DUAL KEYBOARD ADAPTER	$47.45

VIDEO CABLES

$11.25 UP

125760	6' SVHS (COAX) 4 MINI M/M	$11.25
125761	12' SVHS (COAX) 4 MINI M/M	$12.99
126014	6' VGA / 5 BNC (DOUBLE SHIELD)	$22.99
131022	10' VGA / 5 BNC (DOUBLE SHIELD)	$24.99
131023	15' VGA / 5 BNC (DOUBLE SHIELD)	$28.45

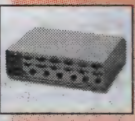
HARD DRIVE CABLES



$2.95 UP

126195	IDE DUAL DRIVE CABLE (40 PIN)	$2.95
126197	PS/2 SCSI DUAL DRIVE (50 PIN)	$3.45
126199	UNIVERSAL DRIVE CABLE	$3.65
126198	TOWER SCSI INTERNAL	$5.25
137764	36" IDE DUAL DRIVE FULL TOWER	$5.95
133661	68" TOWER SCSI CBL 8 -50 PIN	$11.95
132925	36" SCSI-3 THREE DRIVE CABLE	$37.95
132926	68" SCSI-3 7 DRIVE CABLE	$75.95

CPU SHARING SWITCHES

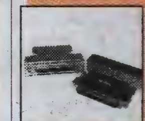


$135.50 UP

128409	4 OUTLET VGA MULTIPLEXER	$135.50
131340	8 OUTLET VGA MULTIPLEXER	$195.50
135331	AUTO-2 PS2,VGA,MOUSE,KEY, SWBX	$284.95
132843	AUTO-2 VGA,MOUSE,KYBD, SWITCH	$284.95
132842	AUTO-4 VGA,MOUSE,KYBD, SWITCH	$332.45
138486	SWITCHVIEW 2-1	$160.55
138294	SWITCHVIEW 4-1	$236.45

SCSI PRODUCTS

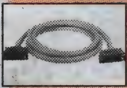
SCSI-2 ADAPTERS



$18.95 UP

129309	MICRO DB50F-50 CENT M ADAPTER	$18.95
129316	MICRO DB50M-50 CENT F ADAPTER	$18.95
129271	MICRO DB50M-DB25F SCSI ADAPTER	$18.95
129283	50 PIN SOCKET-SCSI 2 W/BRKT	$32.75

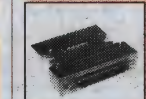
MICRO D50 SCSI-2 CABLES



$33.25 UP

132936	18" SCSI-2 MD50M-CENT 50M	$33.25
127012	3.5' MD50-C50 M	$37.95
127013	6' MD50-C50 M	$42.75
127016	3.5' MICRO DB50 M/M	$37.95
127017	6' MICRO DB50 M/M	$42.75

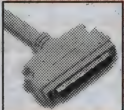
SCSI-3 ADAPTERS



$28.50 UP

132972	SCSI-3 HD68F TO 50 PIN ADAPTER	$37.50
132971	SCSI-3 HD68M-50 PIN HEADER	$37.50
132964	SCSI-3 HD68M-HD50F ADAPTER	$28.50

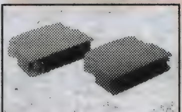
MD68 SCSI-3 CABLES



$42.75 UP

131317	3' MICRO DB68M-50 CENT M	$42.75
131318	6' MICRO DB68M-50 CENT M	$47.50
131309	3' MICRO DB68 M - 50 CENT M TS	$42.75
131310	6' MICRO DB68 M - 50 CENT M TS	$47.50
131625	3' MICRO DB68M - MICRO DB50M	$47.50
131626	6' MICRO DB68M - MICRO DB50M	$52.25
131701	3' MICRO DB68M-MICRO DB50M TS	$47.50
131702	6' MICRO DB68M-MICRO DB50M TS	$52.25
131311	3' MICRO DB68M-DB68M SCSI 3	$52.25
131313	6' MICRO DB68M-DB68M SCSI 3	$56.95
131307	3' MICRO DB68M-DB68M SCSI 3 TS	$52.25
131308	6' MICRO DB68M-DB68M SCSI 3 TS	$56.95

SCSI TERMINATORS

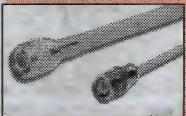


$9.95 UP

126714	50 CENT PASSIVE M/F	$9.95
129272	DB25M PASSIVE TERM.	$11.75
127024	HD50M PASSIVE TERM.	$18.95
127027	50 CENT ACTIVE TERM.	$14.25
127025	HD50M ACTIVE TERM.	$21.95

CABLES & CONNECTORS

ETHERNET CABLES



$5.50 UP

126636	8' RG58 802.3 THINNET CABLE	$5.50
126639	15' RG58 802.3 THINNET CABLE	$7.50
126641	25' RG58 802.3 THINNET CABLE	$9.25
126637	100' RG58 802.3 THINNET CABLE	$27.50
126928	6' TRANSCEIVER CABLE	$13.95

Other lengths available

BULK CABLE

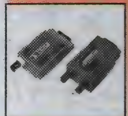
130690	500' 4PR 24AWG STRD L5 WHITE PVC	$65.00
130499	500' 89907-RG58AU THINNET PVC	$85.00
130574	500' 4PR 24AWG UTP L5 PLENUM BOX	$140.00
130847	500'9 89907-10BASE2 THINNET PLENUM	$215.00

Custom lengths available

BULK CONNECTORS

125398	RJ45 8 PIN STRD 6 MICRO" GOLD	$0.15
131778	RJ45 8 PIN STRD 50 MICRO" GOLD	$0.24
125395	RJ45 PLUG ROUND SLD 5-554720-4	$0.49
125490	RG58 MALE CRIMP	$0.90
125497	BNC RG58 TERMINATOR	$1.25
125494	RG58 MALE CRIMP PLENUM	$1.75
125500	BNC T ADAPTER	$2.35

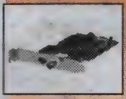
TRANSCEIVERS



$28.45 UP

127564	10 BASE T TRANSCEIVER	$28.45
127570	MICRO TRANSCEIVER BNC	$28.45
127571	MICRO TRANSCEIVER FIBER ST	$155.95

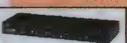
KTI NIC CARDS



$20.95 UP

136235	16-BIT ISA COMBO NIC	$20.95
136214	32-BIT PCI COMBO NIC	$22.95
138877	10/100 NIC - RJ45	$44.95

KTI HUBS



$56.95 UP

136204	5 PORT ETHERNET WKGRP HUB	$56.95
136205	5 PORT ETHERNET HUB W/BNC	$66.45
136206	9 PORT ETHERNET HUB 10 BASE T	$75.95
136208	18 PORT ETHERNET HUB AUI/BNC	$170.95
138762	4 PORT 100BTX WORKGROUP HUB	$122.55
138221	8 PORT 100BTX WORKGROUP HUB	$227.00

MODULAR ADAPTERS

$3.75 UP

126380	RJ45/DB25F MODULAR ADAPTER	$3.75
126398	RJ45/DB9M MODULAR ADAPTER	$3.75
126394	RJ45/DB9F MODULAR ADAPTER	$3.75
126387	RJ45/DB25M MODULAR ADAPTER	$3.75

CAT5 PATCH PANELS

$85.95 UP

129594	12 PORT CAT 5 PATCH PANEL	$85.95
129596	24 PORT CAT 5 PATCH PANEL	$125.95
129598	48 PORT CAT 5 PATCH PANEL	$245.95

APPLE CABLES

126453	6' MAC + IMAGE WRITER II	$3.50
126454	10' MAC + IMAGE WRITER II	$4.00
126448	6' MAC+/HAYES MODEM	$4.75
126449	10' MAC+/HAYES MODEM	$5.45
125768	6' 8 PIN DIN M/F	$3.99
133018	10' 8 PIN DIN M/F	$4.95
125769	6' 8 PIN DIN M/M	$3.99
125771	10' 8 PIN DIN M/M	$4.95
125760	6' ADB CABLE M/M	$11.25
126158	6' 4 PIN ADB CABLE M/F	$4.50

APPLE SCSI PERIPHERAL CABLES

126999	3' MOLDED C50 MM SCSI 2	$17.95
127000	7.5' MOLDED C50 M/M SCSI 2	$22.95
126998	12.5' MOLDED C50 M/M SCSI 2	$27.95

APPLE SCSI SYSTEM CABLES

125943	6' SYSTEM CABLE DB25M/C50M	$7.50
125941	6' PREMIUM SYSTEM CABLE	$18.99
131305	3' MICRO DB50M-DB25M SCSI 2	$32.95
131306	6' MICRO DB50M-DB25M SCSI 2	$37.50

SURGE PROTECTION

136842	6 POSITION SURGE	$7.50
136843	6 POSITION SURGE/FAX	$11.95
136844	6 POSITION METAL SURGE	$8.50
136845	6 POSITION METAL SURGE/FAX	$12.95
136847	DESKTOP SURGE/FAX	$29.95

MICE

126442	MS COMPATIBLE MOUSE	$14.25
126443	PS/2 COMPATIBLE BUS MOUSE	$16.95

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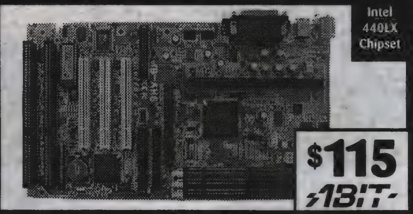
TC COMPUTERS



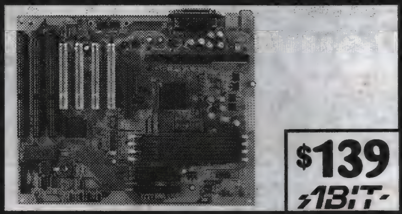
Intel 440LX Chipset

$115

ABIT AH6

- Intel 440LX Chipset
- Support Ultra DMA/33 IDE protocol
- 3 168-pin DIMMS sockets supports SDRAM & EDO DRAM modules
- One AGP slot, 3 PCI slots and 2 ISA slots.
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- ATX form factor. PC97 Compliant

Without CPU	**$115**
W/ Intel Pentium® II 233MHz Chip	**$375**
W/ Intel Pentium® II 266MHz Chip	**$465**
W/ Intel Pentium® II 300MHz Chip	**$595**
W/ Intel Pentium® II 333MHz Chip	**$765**

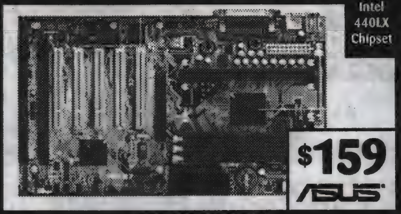


$139

ABIT LX6

- Intel 440LX Chipset
- Support Ultra DMA/33 IDE protocol
- 4 168-pin DIMMS, System memory up to 512MB
- One 32-bit AGP, 4 PCI, 3 ISA slots.
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- ATX form factor. 304X204mm.

Without CPU	**$139**
W/ Intel Pentium® II 233MHz Chip	**$399**
W/ Intel Pentium® II 266MHz Chip	**$489**
W/ Intel Pentium® II 300MHz Chip	**$619**
W/ Intel Pentium® II 333MHz Chip	**$789**



Intel 440LX Chipset

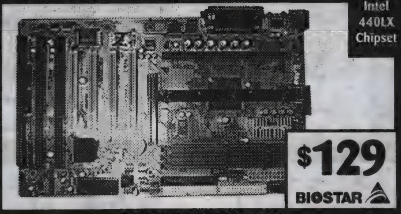
$159

ASUS P2L97

- Intel 440LX AGPset with I/O subsystems
- 3/168-Pin DIMM Sockets, supports 8MB to 384 MB
- One 32-bit AGP, 2 ISA bus slots, 5 PCI bus Slots
- Award Flash Plug & Play BIOS supports DMI
- 2 Serial, 1 Floppy, 1 EPP/ECP Parallel, 2 IDE, 2 USB, ATAPI CD-ROM Support, PS/2 Kybd & Mouse ports
- ATX Form Factor 8.3"x 12"

Also available ASUS P2L97-S for $255
Also available ASUS P2L97-DS (Dual) for $399

Without CPU	**$159**
W/ Intel Pentium® II 233MHz Chip	**$419**
W/ Intel Pentium® II 266MHz Chip	**$509**
W/ Intel Pentium® II 300MHz Chip	**$639**
W/ Intel Pentium® II 333MHz Chip	**$809**



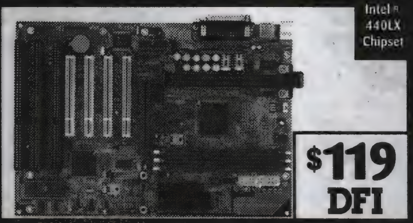
Intel 440LX Chipset

$129

BIOSTAR M6TLC

- Intel® 440LX PCIset, Pentium II 233~333MHz 440LX Mainboard
- Ultra DMA/33 IDE support
- One AGP Bus slot, 3 16-bit ISA and 4 32-bit PCI slots w/ 4 masters
- 4 168-Pin DIMM Sockets
- 2 Serial, 1 Floppy, 1 Parallel, 2 sets USB, PS/2 Keyboard
- Award BIOS PnP, Windows 98, APM 1.2, DMI
- ATX Form Factor, 30.5cm x 19cm (W x L)

Without CPU	**$129**
W/ Intel Pentium® II 233MHz Chip	**$389**
W/ Intel Pentium® II 266MHz Chip	**$479**
W/ Intel Pentium® II 300MHz Chip	**$609**
W/ Intel Pentium® II 333MHz Chip	**$779**



Intel® 440LX Chipset

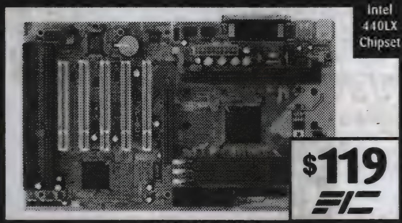
$119

DFI P2XLX

- Intel® 440LX Chipset/ Intel Pentium® II Processors
- Support Ultra DMA/33
- 3 168-pin DIMMS sockets (un-buffered)
- Accelerated Graphics Port (AGP) w/ up to 533MB/sec bandwidth
- One AGP slot, 3 PCI slots, 2 16-bit ISA slots, 1 shared PCI/ISA slot
- 2 Serial, 1 Floppy, 1 DB-25 Parallel, 2 IDE, 2 USB
- Award BIOS, Windows®95 Plug & Play compatible
- 4 layers, ATX form factor. 12" x 8.27"

Also available DFI P2XLX/E for $109

Without CPU	**$119**
W/ Intel Pentium® II 233MHz Chip	**$379**
W/ Intel Pentium® II 266MHz Chip	**$469**
W/ Intel Pentium® II 300MHz Chip	**$599**
W/ Intel Pentium® II 333MHz Chip	**$769**



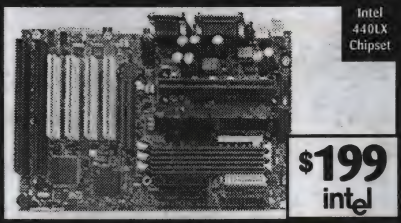
Intel 440LX Chipset

$119

FIC VL-601

- Intel® 440LX Chipset/ Intel Pentium® II Processors
- 242-pin slot 1 Dual Independent Bus support Intel Pentium II 233/333MHz
- Ultra DMA33; PIO Mode 4, Three 168-pin DIMM
- One 32-bit AGP, 5/32-bit PCI, 2/16-bit ISA Slots
- APM 1.2; PnP compliant; Flash EPROM, LS-120 supp.
- 2 Serial, 1 Parallel, PS/2 mouse & keyboard
- ATX-size 4-layer PCB; 7.1"x12"

Without CPU	**$119**
W/ Intel Pentium® II 233MHz Chip	**$379**
W/ Intel Pentium® II 266MHz Chip	**$469**
W/ Intel Pentium® II 300MHz Chip	**$599**
W/ Intel Pentium® II 333MHz Chip	**$769**



Intel 440LX Chipset

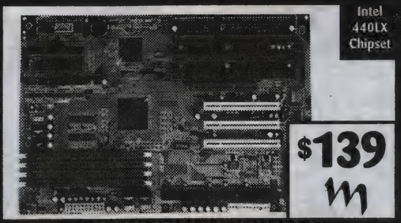
$199

INTEL AL440LX

- Intel 440LX Chipset
- 512KB Second-level Cache
- 3 168-pin DIMMS, Supports up to 384MB DRAM mem.
- One 32-bit AGP, 2/16-bit ISA, 4/32-bit PCI slots
- Supports up to four IDE drives or devices
- Plug & Play compatible
- ATX form factor of 12x7.75"

Also available Intel DK440LX (ATX Dual) at $549

Without CPU	**$199**
W/ Intel Pentium® II 233MHz Chip	**$459**
W/ Intel Pentium® II 266MHz Chip	**$549**
W/ Intel Pentium® II 300MHz Chip	**$679**
W/ Intel Pentium® II 333MHz Chip	**$849**



Intel 440LX Chipset

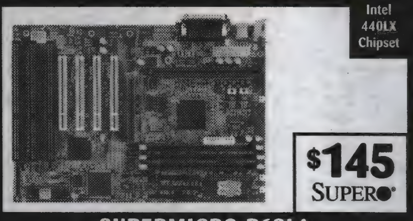
$139

MTI STALLION AT-M628

- Intel 82440LX PCIset
- 1 32-bit AGP, 3/32-bit PCI & 4/16-bit ISA slots
- 2 Serial, 1 Floppy, 1 FDD, 1 Parallel, Ir Connector
- 4 168-pin DIMM sockets,
- Flash EPROM BIOS
- Baby AT Form Factor 22cmx33cm.

Also available MTI Stallion ATX-M668 for $139

Without CPU	**$139**
W/ Intel Pentium® II 233MHz Chip	**$399**
W/ Intel Pentium® II 266MHz Chip	**$489**
W/ Intel Pentium® II 300MHz Chip	**$619**
W/ Intel Pentium® II 333MHz Chip	**$789**



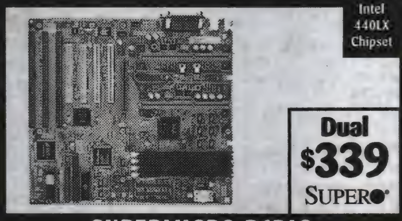
Intel 440LX Chipset

$145

SUPERMICRO P6SLA

- Intel 440LX PCI Chipset
- Supports Dual Pentium® II 300/266/233MHz or higher
- AGP, Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33
- 3 168-pin DIMMs
- One 32-bit AGP, 3 ISA, 4 PCI Slots
- 532 MB/s 2x trans. mode
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Size: Full ATX, 768MB EDO or 384MB SDRAM w/ 3 DIMMs

Without CPU	**$145**
W/ Intel Pentium® II 233MHz Chip	**$405**
W/ Intel Pentium® II 266MHz Chip	**$495**
W/ Intel Pentium® II 300MHz Chip	**$625**
W/ Intel Pentium® II 333MHz Chip	**$795**



Intel 440LX Chipset

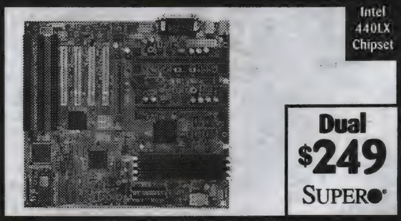
Dual $339

SUPERMICRO P6DLS

- Intel 440LX PCI Chipset
- 2 slots for Dual Pentium® II Processor
- One 32-bit AGP, 3 ISA, 4 PCI Slots
- DMI 2.0 support Flash EPROM
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- ATX size, 1GB EDO, 512MB SDRAM w/ 4 168-pin DIMM sockets

Also available SuperMicro P6SLS at $249

Without CPU	**$339**
W/ Intel Pentium® II 233MHz Chip	**$599**
W/ Intel Pentium® II 266MHz Chip	**$689**
W/ Intel Pentium® II 300MHz Chip	**$819**
W/ Intel Pentium® II 333MHz Chip	**$989**
W/ Dual Intel Pentium® II 233MHz	**$859**
W/ Dual Intel Pentium® II 266MHz	**$1039**
W/ Dual Intel Pentium® II 300MHz	**$1299**
W/ Dual Intel Pentium® II 333MHz	**$1639**



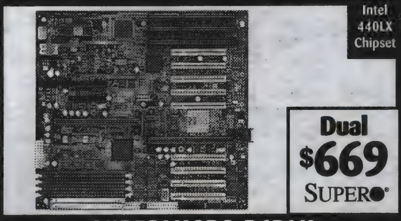
Intel 440LX Chipset

Dual $249

SUPERMICRO P6DLE

- Intel 440LX PCI Chipset
- 2 slots 1 for Dual Pentium® II Processor
- 3 ISA, 4 PCI Slots & DMI 2.0 support Flash EPROM
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- ATX size, 1GB EDO, 512MB SDRAM w/ 4 168-pin DIMM sockets

Without CPU	**$249**
W/ Intel Pentium® II 233MHz Chip	**$509**
W/ Intel Pentium® II 266MHz Chip	**$599**
W/ Intel Pentium® II 300MHz Chip	**$729**
W/ Intel Pentium® II 333MHz Chip	**$899**
W/ Dual Intel Pentium® II 233MHz	**$769**
W/ Dual Intel Pentium® II 266MHz	**$949**
W/ Dual Intel Pentium® II 300MHz	**$1209**
W/ Dual Intel Pentium® II 333MHz	**$1549**



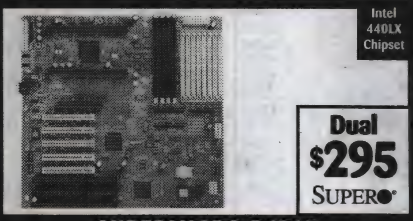
Intel 440LX Chipset

Dual $669

SUPERMICRO P6DLH

- Intel 440LX PCI Chipset
- Supports Dual Pentium® II 333/300/266/233MHz or higher
- Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33MB/s
- 4 168-pin DIMM
- One 32-bit AGP, 3 ISA, 9 PCI Slots
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Full AT, 1GB EDO or 512MB SDRAM

Without CPU	**$669**
W/ Intel Pentium® II 233MHz Chip	**$929**
W/ Intel Pentium® II 266MHz Chip	**$1019**
W/ Intel Pentium® II 300MHz Chip	**$1149**
W/ Intel Pentium® II 333MHz Chip	**$1319**
W/ Dual Intel Pentium® II 233MHz	**$1189**
W/ Dual Intel Pentium® II 266MHz	**$1369**
W/ Dual Intel Pentium® II 300MHz	**$1629**
W/ Dual Intel Pentium® II 333MHz	**$1969**



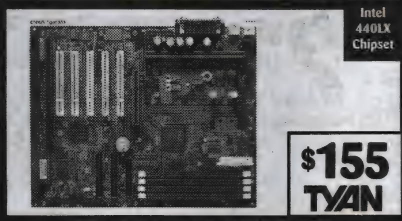
Intel 440LX Chipset

Dual $295

SUPERMICRO P6DLF

- Supports Dual Pentium® II 300/266/233MHz or higher
- AGP, Wake on LAN, SDRAM, concurrent PCI, Ultra DMA33
- 4 168-pin DIMM & 8 SIMM sockets
- One 32-bit AGP, 3/16 bit ISA, 5/32-bit PCI Slots
- AGP connector, 532 MB/s 2x trans. mode
- 2 Serial, 1 Floppy, 1 IR, 2 USB, PS/2 Kybd.& Mse.
- Size: Full AT, 1GB EDO or 512MB SDRAM

Without CPU	**$295**
W/ Intel Pentium® II 233MHz Chip	**$555**
W/ Intel Pentium® II 266MHz Chip	**$645**
W/ Intel Pentium® II 300MHz Chip	**$775**
W/ Intel Pentium® II 333MHz Chip	**$945**
W/ Dual Intel Pentium® II 233MHz	**$815**
W/ Dual Intel Pentium® II 266MHz	**$995**
W/ Dual Intel Pentium® II 300MHz	**$1255**
W/ Dual Intel Pentium® II 333MHz	**$1595**



Intel 440LX Chipset

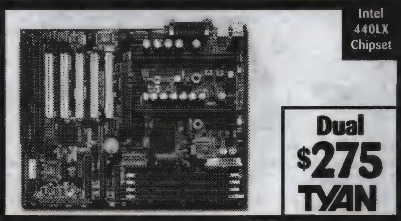
$155

TYAN S1692S TIGER ATX

- Intel 440LX PCIset
- Maximum Memory Capacity to 1024MB RAM
- 1 32-bit AGP, 5/32-bit PCI & 2/16-bit ISA slots
- 2 Serial, 1 Floppy, 1 FDD, 1 Parallel, Ir Connector
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- ATX 9.5"x12"

Also available Tyan 1694S Tiger Cub ATX for $125

Without CPU	**$155**
W/ Intel Pentium® II 233MHz Chip	**$415**
W/ Intel Pentium® II 266MHz Chip	**$505**
W/ Intel Pentium® II 300MHz Chip	**$635**
W/ Intel Pentium® II 333MHz Chip	**$805**



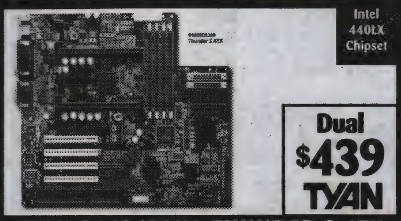
Intel 440LX Chipset

Dual $275

TYAN S1692DL TIGER 2 ATX

- Intel 440LX AGP Chipset, 32-bit AGP, Dual Pentium® II Support
- Up to 1024MB EDO/ECC DRAM Support
- 1 32-bit AGP, 5 32-bit PCI, 2 16-bit ISA slots, 1 shared PCI/ISA
- 2 Serial, 2 Floppy, 2USB, 1 Parallel, 1 IR, 1 mouse, 1 keyboard port
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- ATX 9.5"x12". Double row ATX Connectors.

Without CPU	**$275**
W/ Intel Pentium® II 233MHz Chip	**$535**
W/ Intel Pentium® II 266MHz Chip	**$625**
W/ Intel Pentium® II 300MHz Chip	**$755**
W/ Intel Pentium® II 333MHz Chip	**$925**
W/ Dual Intel Pentium® II 233MHz	**$795**
W/ Dual Intel Pentium® II 266MHz	**$975**
W/ Dual Intel Pentium® II 300MHz	**$1235**
W/ Dual Intel Pentium® II 333MHz	**$1575**



Intel 440LX Chipset

Dual $439

TYAN S1696DLUA THUNDER 2 ATX

- Intel 440LX AGP Chipset, 32-bit AGP, Dual Pentium® II Support
- Up to 1024MB EDO/ECC DRAM Support
- 1 32-bit AGP, 4 32-bit PCI, 2 16-bit ISA slots, 1 shared PCI/ISA
- 2 Serial, 2 Floppy, 2USB, 1 Parallel, 1 IR, 1 mouse, 1 keyboard port
- 4 168-pin DIMM sockets,
- AMI PnP flash BIOS Standard
- Extended ATX 12.25"x12". Double row ATX Connectors.

Without CPU	**$439**
W/ Intel Pentium® II 233MHz Chip	**$699**
W/ Intel Pentium® II 266MHz Chip	**$789**
W/ Intel Pentium® II 300MHz Chip	**$919**
W/ Intel Pentium® II 333MHz Chip	**$1089**
W/ Dual Intel Pentium® II 233MHz	**$959**
W/ Dual Intel Pentium® II 266MHz	**$1139**
W/ Dual Intel Pentium® II 300MHz	**$1399**
W/ Dual Intel Pentium® II 333MHz	**$1739**

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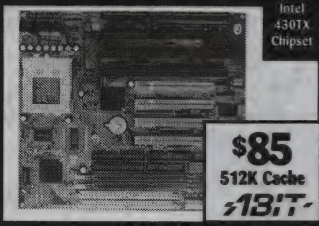

Intel 430TX Chipset

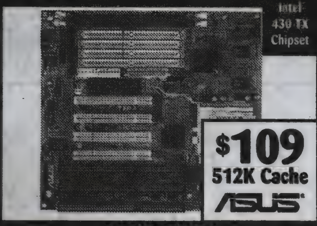
$85
512K Cache

ABIT PX5

- Jumperless CPU Settings with Soft Menu
- Intel 430TX PCI Chipset & 512K Pipeline Burst Cache
- 4 ISA & 4 PCI Slots
- 2/72-Pin SIMM & 2 DIMM Sockets (256MB max,
- Award PCI Flash Plug & Play BIOS
- 1 Floppy, 2 Serial & 1 Parallel Port (for up to 4 IDE devices), USB connector, AT Keybd. & PS/2 mse. connect
- Size: 8.6"x9.8", Baby AT Form Factor

Also available as an AT (ABIT TX5) for only $95
Also available as an ATX (ABIT AX5) for only $99

With No CPU........$85
With Intel Pentium® Processor
P5MMX-166MHz......$195 P5MM233MHz..........$255
P5MMX-200MHz......$205
With AMD-K6™ MMX Processor
K6 PR 200........... $185 K6 PR 233..............$225
With CYRIX 6X86MX Processor
6x86MX PR200+..... $175 6x86MXPR233+........$215
With IDT WinChip™C6™ Processor
WinChip C200.........$165


Intel 430 TX Chipset

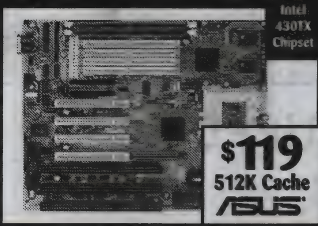
$109
512K Cache

ASUS TXP4

- Intel 430TX PCI Set
- 4X SIMM for EDO/FPM Memory Modules, 2X DIMM for SDRAM (256MB max)
- 3X ISA, 4X PCI Slots
- Award PCI BIOS, DMI, Plug & Play, Green Feature
- 1 Floppy, 2 Serial & 1 Parallel Port, IrDA TX/RX Header
- Size: 9.6"x 9.6", Baby AT PCB connector.

Also available as an ATX (ASUS TXP4-X) for only $119
Also available as an AT (ASUS TX97) for only $119

With No CPU........$109
With Intel Pentium® Processor
P5MMX-166MHz......$219 P5MM233MHz..........$279
P5MMX-200MHz......$229
With AMD-K6™ MMX Processor
K6 PR 200........... $209 K6 PR 233..............$249
With CYRIX 6X86MX Processor
6x86MX PR200+..... $199 6x86MXPR233+........$239
With IDT WinChip™C6™ Processor
WinChip C200.........$189


Intel 430TX Chipset

$119
512K Cache

ASUS TX97E

- Intel 430TX PCI Chipset & 512K Pipeline Burst Cache
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max)
- 3 ISA, 4 PCI (one shared)
- Ultra DMA/33 Bus Master IDE @ 33MB/sec
- 1 Floppy, 2 Serial w/16550 & 1 Parallel Port w/ECP/EEP support, USB Port, Optional PS/2 support
- Size: 8.6"x11.1", 3/4 Baby AT Form Factor

Also available TX97XWOA without audio for only $135
Also available as an ASUS TX97X w/sound for $165

With No CPU........$119
With Intel Pentium® Processor
P5MMX-166MHz......$229 P5MM233MHz..........$289
P5MMX-200MHz......$239
With AMD-K6™ MMX Processor
K6 PR 200........... $219 K6 PR 233..............$259
With CYRIX 6X86MX Processor
6x86MX PR200+..... $209 6x86MXPR233+........$249
With IDT WinChip™C6™ Processor
WinChip C200.........$199

ALI Chipset SuperTX

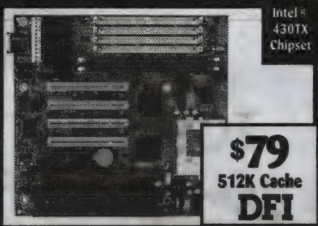
$75
512K Cache

BIOSTAR M5ATA

- Pentium 75~233MHz Super TX Mainboard
- 4/72-Pin SIMM & 2/168-Pin DIMM Sockets (256MB max, EDO/BEDO DRAM capable)
- 3 16-Bit ISA, 4 32-Bit PCI Slots
- AMI BIOS DMI Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port , AT/PS/2 Keyboard (supports up to 4 IDE devices), Optional PS/2 mouse Port
- Size: 22cmx22cm, AT or ATX Power Connector.

Also available BIOSTAR M5TTB for $89
Also available BIOSTAR 8500TTD for $85

With No CPU........ $75
With Intel Pentium® Processor
P5MMX-166MHz......$185 P5MM233MHz..........$245
P5MMX-200MHz......$195
With AMD-K6™ MMX Processor
K6 PR 200........... $175 K6 PR 233..............$215
With CYRIX 6X86MX Processor
6x86MX PR200+..... $165 6x86MXPR233+........$205
With IDT WinChip™C6™ Processor
WinChip C200.........$155


Intel® 430TX Chipset

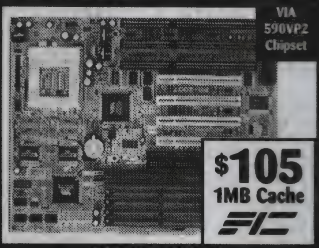
$79
512K Cache

DFI P5BTX/L

- Intel® 82430TX PCIset/ 512KB Pipeline Burst Cache
- 3 16-Bit ISA slots, 4 PCI Slots
- 2 168-Pin DIMM & 4 72-Pin SIMM Sockets (256MB max)
- Award BIOS, Windows®95 Plug & Play compatible
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Size: 9.05" x 8.66", 4 layers, Baby AT form factor.

Also available DFI 586ITXD (ATX) for only $89
Also available DFI 586ITBD (Baby AT) for only $85

With No CPU........$79
With Intel Pentium® Processor
P5MMX-166MHz......$189 P5MM233MHz..........$249
P5MMX-200MHz......$199
With AMD-K6™ MMX Processor
K6 PR 200........... $179 K6 PR 233..............$219
With CYRIX 6X86MX Processor
6x86MX PR200+..... $169 6x86MXPR233+........$209
With IDT WinChip™C6™ Processor
WinChip C200.........$159


VIA 590VP2 Chipset

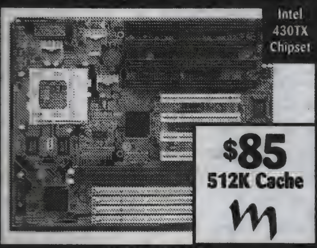
$105
1MB Cache

FIC PA-2007

- VIA 590VP2 Chipset
- 1MB pipeline Burst SRAM Cache.
- 4/72-pin SIMM, 2/168-pin DIMM Sockets. (512MB max, EDO/SDRAM Support)
- 3/16-bit ISA, 4/32-bit PCI slots.
- LS-120, APM 1.2, FLASH EPROM, Plug & Play Support)
- Size: 4-layer Baby AT. 8.6"x11".

Also available as an AT (FIC VT-503) for $85

With No CPU........$105
With Intel Pentium® Processor
P5MMX-166MHz......$215 P5MM233MHz..........$275
P5MMX-200MHz......$225
With AMD-K6™ MMX Processor
K6 PR 200........... $205 K6 PR 233..............$245
With CYRIX 6X86MX Processor
6x86MX PR200+..... $195 6x86MXPR233+........$235
With IDT WinChip™C6™ Processor
WinChip C200.........$185


Intel 430TX Chipset

$85
512K Cache

MTI R539

- Intel 430TX Chipset
- 4/72-Pin SIMM Sockets (256 max., EDO capable)
- 2x168-Pin DIMM Sockets, 4 ISA, 4 PCI Slots
- Flash ROM BIOS w/ Green, Plug & Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, AT Keyboard & PS/2 Mouse Port (cable included)
- Size: 8.7"x12.2", Baby AT Form Factor

Also available MTI MIG-R557 ATX for $105
Also available MTI MUSTANG R-547 ATX for $99

With No CPU........$85
With Intel Pentium® Processor
P5MMX-166MHz......$195 P5MM233MHz..........$255
P5MMX-200MHz......$205
With AMD-K6™ MMX Processor
K6 PR 200........... $185 K6 PR 233..............$225
With CYRIX 6X86MX Processor
6x86MX PR200+..... $175 6x86MXPR233+........$215
With IDT WinChip™C6™ Processor
WinChip C200.........$165

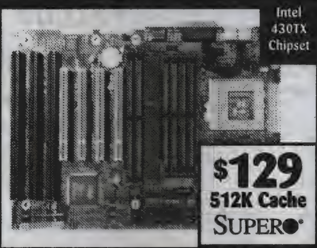
Intel 430TX Chipset

$99
512K Cache

MTI-R541

- Intel 430TX (82439TX, 82371AB) PCI Chipset
- 512K Pipeline Burst Cache
- 3x168-Pin DIMM SDRAM Socket
- 5 ISA, 4 PCI Slots
- Flash ROM BIOS with Green, Plug&Play Features
- 1 Floppy, 2 Serial, 1 Parallel, 2 Bus Master IDE Ports, 2 USB, AT Keyboard & PS/2 Mouse Port
- Size: 8.7"x12.2", Baby AT Form Factor

With No CPU........$99
With Intel Pentium® Processor
P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219
With AMD-K6™ MMX Processor
K6 PR 200........... $199 K6 PR 233..............$239
With CYRIX 6X86MX Processor
6x86MX PR200+..... $189 6x86MXPR233+........$229
With IDT WinChip™C6™ Processor
WinChip C200.........$179


Intel 430TX Chipset

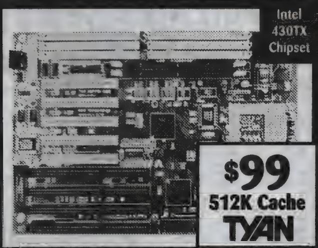
$129
512K Cache

SUPERMICRO P5MMA98

- Intel 430TX PCI Chipset
- 512K Pipeline Burst Cache
- 4/72-Pin SIMM Sockets (256 max., EDO capable)
- 2/168 Pin DIMM Sockets
- 4 ISA, 4 PCI Slots
- AMI PCI Flash Plug & Play BIOS
- 1 Floppy, 2 UART 16550 Serial, 1 ECP/EPP Parallel, 2 USB, Optional IR & PS/2 Mouse
- Size: 12"x8.3", ATX form factor

Also available as an AT (P5MMS98) for $125

With No CPU........$129
With Intel Pentium® Processor
P5MMX-166MHz......$239 P5MM233MHz..........$299
P5MMX-200MHz......$249
With AMD-K6™ MMX Processor
K6 PR 200........... $229 K6 PR 233..............$269
With CYRIX 6X86MX Processor
6x86MX PR200+..... $219 6x86MXPR233+........$259
With IDT WinChip™C6™ Processor
WinChip C200.........$209


Intel 430TX Chipset

$99
512K Cache

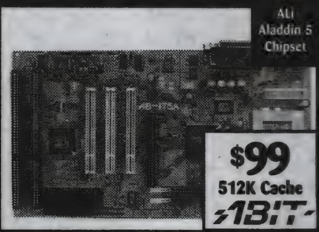
TYAN TITAN TURBO S1571

- Intel TX PCI Chipset
- 512K Pipeline Burst Cache
- 6/72-Pin Sockets (256 max., EDO & Fast Page DRAM)
- 2/168-Pin DIMM Sockets
- 4 ISA, 5 PCI Slots
- Award PCI Flash Plug & Play BIOS
- 2 EIDE, 2 Floppy, 2 16550 Serial & 1 ECP/EPP Parallel Port, Optional PS/2 mouse connect & IR Port.
- Size: 8.66"x13.25", Baby AT form factor

Also available TYAN TITAN TURBO S1573 (ATX) for only $99

With No CPU........$99
With Intel Pentium® Processor
P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219
With AMD-K6™ MMX Processor
K6 PR 200........... $199 K6 PR 233..............$239
With CYRIX 6X86MX Processor
6x86MX PR200+..... $189 6x86MXPR233+........$229
With IDT WinChip™C6™ Processor
WinChip C200.........$179

Socket 7 AGP Boards

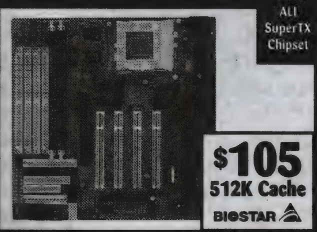

ALi Aladdin 5 Chipset

$99
512K Cache

ABIT IT5A

- ALi Aladdin V Chipset, ABIT premier Socket 7 (586) motherboard
- 2 ISA slots, 3 PCI Slots & 1 AGP Slot
- 2 168-Pin DIMM sockets support SDRAM (256MB max)
- Award Plug & Play BIOS supports APM, DMI, & ACPI
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Ultra DMA/33 supported IDE protocol, supports AGP 66/133MHz
- PC 97 compliant, ATX form factor.

With No CPU........$99
With Intel Pentium® Processor
P5MMX-166MHz......$209 P5MM233MHz..........$269
P5MMX-200MHz......$219
With AMD-K6™ MMX Processor
K6 PR 200........... $199 K6 PR 233..............$239
With CYRIX 6X86MX Processor
6x86MX PR200+..... $189 6x86MXPR233+........$229
With IDT WinChip™C6™ Processor
WinChip C200.........$179


ALI SuperTX Chipset

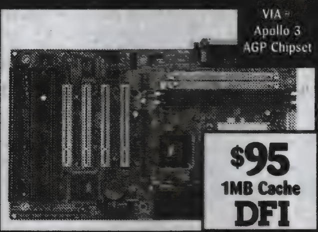
$105
512K Cache

BIOSTAR M5ALA

- ALI Super TX Chipset
- 4 72-Pin SIMM & 2 168-Pin SDRAM Sockets
- 256MB Max Memory
- 2 ISA slots, 4 PCI slots and 1 AGP slot
- Award BIOS, Ultra DMA Drives Support
- 1 Floppy, 2 Serial & 1 Parallel Port , 2 Bus Master IDE Ports
- AT Form Factor.

Also available BIOSTAR M5VIA (ATX) for $99

With No CPU........$105
With Intel Pentium® Processor
P5MMX-166MHz......$215 P5MM233MHz..........$275
P5MMX-200MHz......$225
With AMD-K6™ MMX Processor
K6 PR 200........... $205 K6 PR 233..............$245
With CYRIX 6X86MX Processor
6x86MX PR200+..... $195 6x86MXPR233+........$235
With IDT WinChip™C6™ Processor
WinChip C200.........$185


VIA® Apollo 3 AGP Chipset

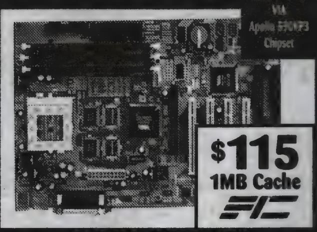
$95
1MB Cache

DFI P5XV3

- VIA® Apollo 3 AGP Chipset, 1MB Pipeline Burst Cache
- 2 16-Bit ISA, 3 PCI & 1 shared PCI/ISA & 1 AGP slot
- 2 168-Pin DIMM & 2 72-Pin SIMM Sockets (256MB max)
- Award BIOS, Windows®95 Plug & Play compatible
- 1 Floppy, 2 Serial & 1 Parallel, 2 USB connector, 1 P/S2 Keybd., PS/2 mouse, 2 IDE connectors, Ultra DMA/33 supported.
- Accelerated Graphics Port
- Size: 11.81"x7.08", 4 layers, ATX form factor.

Also available DFI P5BV3 (AT) for $85

With No CPU........$95
With Intel Pentium® Processor
P5MMX-166MHz......$205 P5MM233MHz..........$265
P5MMX-200MHz......$215
With AMD-K6™ MMX Processor
K6 PR 200........... $195 K6 PR 233..............$235
With CYRIX 6X86MX Processor
6x86MX PR200+..... $185 6x86MXPR233+........$225
With IDT WinChip™C6™ Processor
WinChip C200.........$175


VIA Apollo 590VP3 Chipset

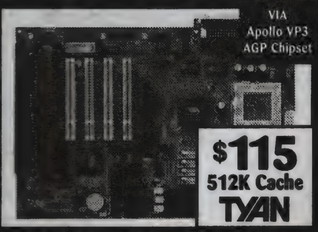
$115
1MB Cache

FIC PA-2012 ATX

- VIA Apollo 590VP3 Chipset
- Onboard 256/512K/1MB Pipeline Burst Cache
- 3/168-Pin DIMM Sockets support 3.3V EDO & SDRAM Supports up to 384MB DRAM
- 2 16-bit ISA, 5 32-bit PCI, 1 64-bit AGP Slots
- APM 1.2; Plug and Play, DMI 2.0 compliant Flash EPROM
- 1 Floppy, 2 Serial & 1 Parallel Port, Ultra DMA/33 PCI IDE
- Size: 12"x8.8", ATX-size 4-layer PCB

Also available FIC VA-503 (ATX) for $79

With No CPU........$115
With Intel Pentium® Processor
P5MMX-166MHz......$225 P5MM233MHz..........$285
P5MMX-200MHz......$235
With AMD-K6™ MMX Processor
K6 PR 200........... $215 K6 PR 233..............$255
With CYRIX 6X86MX Processor
6x86MX PR200+..... $205 6x86MXPR233+........$245
With IDT WinChip™C6™ Processor
WinChip C200.........$195


VIA Apollo VP3 AGP Chipset

$115
512K Cache

TYAN TRINITY ATX S1592S

- VIA Apollo VP3 Socket 7 AGP Chipset
- Up to 512KB Second level Cache
- 3 168-Pin DIMM Sockets, 4 72-pin SIMM Socket
- 4 PCI, 3 ISA slots, 1 32-bit AGP slot
- Ultra DMA/33 drive support
- On-board PCI EIDE & Super I/O- Dual Channel PCI Bus Mastering ports, Floppy, 2 Serial, 1 Parallel & Twin USB ports
- ATX form factor

With No CPU........$115
With Intel Pentium® Processor
P5MMX-166MHz......$225 P5MM233MHz..........$285
P5MMX-200MHz......$235
With AMD-K6™ MMX Processor
K6 PR 200........... $215 K6 PR 233..............$255
With CYRIX 6X86MX Processor
6x86MX PR200+..... $205 6x86MXPR233+........$245
With IDT WinChip™C6™ Processor
WinChip C200.........$195

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$1799

Intel®Pentium-II chip...300MHz

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3YR WARRANTY *See Details

MONEY BACK 30-DAY GUARANTEE

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EPSILON / SE

- Intel® 440LX Chipset w/AGP
- 64MB SDRAM Memory
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- 17" .28 Flat Screen 1280x1024 Monitor
- 32X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- Ensoniq PCI 3D wavetable Stereo Sound
- 56K Fax/Modem w/Voice & Speakerphone
- Stereo Microphone and 240W Speakers
- Deluxe ATX Tower Case
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Intel®Pentium-II® **233MHz** **$1569**

Business Lease $79 per mo.

266MHz Pentium-II®chip	1649
300MHz Pentium-II®chip	1799
333MHz Pentium-II®chip	1949
**MS Windows NT 4.0 workstation	add115.00

FAMILY ADVANTAGE

- Gigabyte GA586SG, SIS 5591 Chipset
- 32MB EDO RAM
- 512K Pipeline Cache
- 3.2GB Ultra IDE Hard Drive
- S3 Virge DX 4MB EDO DRAM
- 15" .28 Flat Screen Digital Monitor
- 24X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- 3D Full Duplex Stereo Sound Card
- 56K Fax/Modem w/Voice & Speakerphone
- Stereo Microphone and 240W Speakers
- Enlight Deluxe Mini Tower Case
- 104-key Keyboard & Serial Mouse
- 155 CD Titles with Encyclopedia
- MS Windows95 on CD
- Lotus SmartSuite97
- 3-Year parts, 1-Year On-site Warranty

AMD K6™ **PR2-200 MMX** **$999**

AMD K6™ PR2-233 w/MMX	1059
AMD K6™ PR2-266 w/MMX	CALL
UPGRADE to 4.3GB EIDE Drive	35
UPGRADE to 64MB RAM, 60ns	109

GRAPHICS ULTIMA

- **Intel® 440LX Chipset w/AGP**
- 32MB SDRAM Memory
- 4.3GB Ultra IDE Hard Drive
- **ATI Xpert XL 4MB AGP video**
- 15" .28 Flat Screen Digital Monitor
- 32X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- Ensoniq PCI 3D wavetable Stereo Sound
- 56K Fax/Modem w/Voice & Speakerphone
- Stereo Microphone and 240W Speakers
- Deluxe ATX Tower Case
- 104-key PS/2 Keyboard & PS/2 Mouse
- 155 CD Titles with Encyclopedia
- MS Windows95 on CD
- Lotus SmartSuite97
- 3-Year parts, 1-Year On-site Warranty

Intel®Pentium-II® **233MHz** **$1195**

Business Lease $59 per mo.

266MHz Pentium-II®chip	1269
300MHz Pentium-II®chip	1439
333MHz Pentium-II®chip	1595
**MS Windows NT 4.0 workstation	add115.00

ACTION GAMER

- Gigabyte GA586SG, SIS 5591 Chipset
- 32MB EDO RAM, 512K Pipeline Cache
- 3.2GB Ultra IDE Hard Drive
- ATI Xpert XL AGP 4MB video
- 15" .28 Flat Screen Digital Monitor
- 32X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- Ensoniq PCI 3D wavetable Stereo Sound
- 56K Fax/Modem w/Voice & Speakerphone
- Stereo Microphone and 240W Speakers
- Enlight Deluxe Tower Case
- 104-key Keyboard & Serial Mouse
- 155 CD Titles with Encyclopedia
- MS Windows95 on CD
- Lotus SmartSuite97
- 3-Year parts, 1-Year On-site Warranty

Intel®Pentium® **166MHz** **$1039**

Business Lease $45 per mo.

(with Intel® MMX Technology)

200MHz Pentium®chip w/MMX	1059
233MHz Pentium®chip w/MMX	1129
Upgrade to 64MB EDO RAM	Add 139
Upgrade to 17" .28 N.I. Monitor	Add 199

GRAPHICS STUDIO

- Intel 430TX Chipset, PnP BIOS
- 64MB EDO RAM, 512K Pipeline Cache
- 4.3GB Ultra IDE Hard Drive
- **MATROX MILLENNIUM-II 4MB WRAM graphics accelerator**
- 17" .28 Flat Screen 1280x1024 Monitor
- 32X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- Ensoniq PCI 3D wavetable Stereo Sound
- 56K Fax/Modem w/Voice & Speakerphone
- Stereo Microphone and 240W Speakers
- Enlight Deluxe Tower Case
- 104-key Keyboard & Serial Mouse
- 155 CD Titles with Encyclopedia
- MS Windows95 on CD
- Lotus SmartSuite97
- 3-Year parts, 1-Year On-site Warranty

Intel®Pentium® **166MHz** **$1349**
(with Intel® MMX Technology)

Business Lease $52 per mo.

200MHz Pentium®chip w/MMX	1379
233MHz Pentium®chip w/MMX	1449

HOME SCHOLAR

- Intel® 430TX Chipset, PnP BIOS
- 16MB EDO RAM, 512K Pipeline Cache
- 2.5GB Ultra IDE Hard Drive
- 64-bit 1MB PCI Graphics Accelerator
- 14" .28 SVGA Color Monitor
- 24X Max IDE CD-ROM Drive
- 3.5" 1.44MB Floppy Drive
- 3D Full Duplex Stereo Sound Card
- 33.6K Fax/Modem w/Voice
- Stereo Microphone and 240W Speakers
- Enlight Mini Tower Case
- 104-key Keyboard & Serial Mouse
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- MS Windows95 on CD
- MS Works and Money on CD
- 3-Year parts, 1-Year On-site Warranty

Intel®Pentium® **166MHz** **$855**
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200MHz Pentium®chip w/MMX	875

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3YR WARRANTY *See Details

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SUPPORT Dual PENTIUM-II 233MHz+, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 1GB EDO or 512MB SDRAM w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI /3-ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size

Intel®Pentium-II 233-266 MHz	474/538
Intel®Pentium-II 300-333 MHz	722/871
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	696/823
(2) Intel®Pentium-II 300-333 MHz	1191/1490

SUPERMICRO P6DLS $345

SUPPORT Dual PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, Adaptec 2940UW SCSI on-board controller, 1GB EDO or 512MB SDRAM w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI/3 ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size

Intel®Pentium-II 233-266 MHz	566/630
Intel®Pentium-II 300-333 MHz	814/963
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	788/915
(2) Intel®Pentium-II 300-333 MHz	1274/1573

SUPERMICRO P6SLS $230

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, Adaptec 2940UW SCSI on-board controller, 1GB EDO or 512MB SDRAM —w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI /3 ISA Slots, AGP Connector, ATX size

Intel®Pentium-II 233-266 MHz	451/515
Intel®Pentium-II 300-333 MHz	699/1060

SUPERMICRO P6SLA $138

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 768MB EDO or 384MB SDRAM w/3-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI /3-ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size

Intel®Pentium-II 233-266 MHz	359/423
Intel®Pentium-II 300-333 MHz	607/968

TYAN TIGER-2 ATX S1692DL $264

SUPPORT Dual PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 4-168 pin DIMM (max 1GB RAM), 2 EIDE, 1 Floppy, ECP/EPP parallel port, 5 PCI /2 ISA Slots, 1 AGP slot, 2-Serial, and infared and 2 USB ports, ATX size: 9.5" x 12"

Intel®Pentium-II 233-266 MHz	468/549
Intel®Pentium-II 300-333 MHz	733/883
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	708/834
(2) Intel®Pentium-II 300-333 MHz	1202/1501

TIGER ATX S1696DLUA $437

SUPPORT Dual PENTIUM-II 233MHz+, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 1GB EDO or 512MB SDRAM —w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI / 2 ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size: 12.25" x 12"

Intel®Pentium-II 233-266 MHz	658/722
Intel®Pentium-II 300-333 MHz	906/1055
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	880/1007
(2) Intel®Pentium-II 300-333 MHz	1375/1674

TYAN TIGER ATX S1692S $149

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 4-168 pin DIMM (max 1GB RAM), 2 EIDE, 1 Floppy, ECP/EPP parallel port, 5 PCI/2 ISA Slots, 1 AGP slot, ATX size: 9.5" x 12"

Intel®Pentium-II 233-266 MHz	371/434
Intel®Pentium-II 300-333 MHz	618/979

GIGABYTE GA-686LX $138

SUPPORT Single PENTIUM II® processors, Intel® 440LX Chipset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, Built-in alarm for overheating, 3-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, ATX Form factor

Intel®Pentium-II 233-266 MHz	359/423
Intel®Pentium-II 300-333 MHz	607/756

GIGABYTE GA-686BLX $134

SUPPORT Single PENTIUM II® processors, Intel® 440LX Chipset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, Built-in alarm for overheating, 2-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, AT Form Factor

Intel®Pentium-II 233-266 MHz	356/419
Intel®Pentium-II 300-333 MHz	603/964

ASUS P2L97 $155

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP) ,Ultra DMA 33 MB/s burst data transfer rate, 3-168 pin DIMM Sockets, 5 PCI /2 ISA Slots, 1-AGP Connector, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 2-Serial and 2 USB ports, CPU temperature control, overheat alarm, ATX form factor: 8.3" x 12.0"

Intel®Pentium-II 233-266 MHz	377/440
Intel®Pentium-II 300-333 MHz	624/985

INTEL AL440LX ATLANTA $181

SUPPORT Single PENTIUM II® processors, Intel® 82440LX AGPset, 3-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Yamaha OPL3-SA3 audio built-in, Accelerated Graphics Port (AGP) controller, Advanced Power Management (APM), 2-USB ports, 1-ISA, 3-PCI, 1-Shared PCI/ISA Slot, PS/2 mouse & keyboard on board, ATX form factor: 12" x 7.75"

Intel®Pentium-II 233-266 MHz	403/466
Intel®Pentium-II 300-333 MHz	650/1012

IWILL PIILS $276

SUPPORT Single PENTIUM II® processors, Intel® 440LX AGPset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, **Adaptec Ultra/Ultra Wide SCSI**, Ultra-wide 68-pin & 1-50-pin connectors, System Hardware Monitoring & LDCM, 3-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, ATX form factor: 12" x 7.75"

Intel®Pentium-II 233-266 MHz	497/561
Intel®Pentium-II 300-333 MHz	745/1106

PENTIUM STYLE Intel® 430TX Chipset

IWILL P55XUWB™ $218

Intel® Tritium 430TX PCI Chipset, 4 PCI / 4 ISA slots, 2 USB ports, 4 EIDE Support Ultra DMA33, 3 X DIMM sockets, 512K Pipeline Burst Cache, Offers Adaptec Ultra / Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID. Baby AT size: 8.8" x 11.2"

Adaptec ARO 1130 RAID adapter	289
Intel®Pentium® 166-200-233 MHz MMX	331/357/428
AMD K6™ PR2-200-233	348/393

IWILL P55XUB™ $172

Offers Adaptec Ultra SCSI on-board which is equivalent to AHA 2940AU.

IWILL P55XUW™ $218

Intel® Tritium 430TX PCI Chipset, 4 PCI / 4 ISA slots, 2 USB ports, 4 EIDE Support Ultra DMA33, 4/72 pin SIMM & 3 X DIMM sockets), 512K Pipeline Burst Cache, ATX size: 9.8" x 12.2", Offers Adaptec Ultra/Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID.

Adaptec ARO 1130 RAID adapter	289
Intel®Pentium® 166-200-233 MHz MMX	331/357/428
AMD K6™ PR2-200-233	348/393

IWILL P55XB2™ $103

Intel 430TX PCIset,, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, Baby AT size: 8.8" x 11.2"

Intel®Pentium® 166-200-233 MHz MMX	216/242/313
AMD K6™ PR2-200-233	233/278

TYAN S1592 TRINITY ATX $112

VIA Apollo VP3 PCIset, 512K Pipeline Burst Cache, 4-72pin SIMM & Three 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 ATX Serial ports, PS/2 Keyboard & Mouse, 1 ECP/EPP parallel, 2 USB ports, ATX Form Factor: 11.6" x 8"

Intel®Pentium® 166-200-233MHz MMX	225/251/323
AMD K6™ PR2-200-233	233/278
CYRIX 6x86MX ™ PR200-PR233	186/233

1-3 Year Warranty Extension for $20.00 when any Motherboard and CPU are purchased together.

TYAN S1571 TITAN TURBO AT $105

Intel 430TX PCIset,, 512K Pipeline Burst Cache, 6-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 4 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, AT keyboard connector, 2 USB ports support rev 1.2, Baby AT, size: 11" x 8.8"

Intel®Pentium® 166-200-233 MHz MMX	216/242/313
AMD K6™ PR2-200-233	233/278

TYAN S1573 TITAN TURBO ATX $105

Intel 430TX PCIset, 512K Pipeline Burst Cache, 6-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port. 2 USB ports support, 1 PS/2 keyboard, ATX footprint. size: 13.3" x 8.7"

Intel®Pentium® 166-200-233 MHz MMX	216/242/313
AMD K6™ PR2-200-233	233/278

GIGABYTE GA586TX3 $101

Intel 430TX PCIset, Award Flash BIOS, 512K Pipeline Burst Cache, 2-72pin SIMM & Three 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots (One shared), 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, Size: 3/4 AT Form Factor

Intel®Pentium® 166-200-233 MHz MMX	213/240/311
AMD K6™ PR2-200-233	231/276

GIGABYTE GA586-SG $85

SIS 5591 PCI Chipset, 512K Pipeline Burst Cache, 4/72-Pin SIMM & 2 64-bit 168-pin DIMM, 4 32-bit PCI & 2 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 1 32-bit AGP Slot, 2 Floppy, 2-16550 Serial ports, 1 ECP/EPP Parallel, USB Ports (optional), Baby AT Form Factor

Intel®Pentium® 166-200-233MHz MMX	197/224/295
AMD K6™ PR2-200-233-266	215/259/CALL
CYRIX 6x86MX ™ PR200-233	158/205

BIOSTAR GROUP 8500TTD $77

Intel® Triton 430TX Chipset. 512K Pipeline Burst Cache, 4/72-pin SIMM & 2-168-pin DIMM sockets, 3 PCI & 4 ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy, 2-16550 Serial ports, (1) ECP/EPP Parallel, Baby AT size: 8.6" x 9.4"

Intel®Pentium® 166-200-233 MHz MMX	189/216/287
AMD K6™ PR2-200-233	207/251

GVC GROUP/BCM SQ-575 $80

Intel 430TX PCIset, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots (One shared), 4 EIDE Support Ultra DMA 33MB/s transfer rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, 1 USB header, Baby AT, size 8.66" x 9.05"

Intel®Pentium® 166-200-233 MHz MMX	193/219/290
AMD K6™ PR2-200-233	210/255

SUPERMICRO P5MMS-98 $115

Intel 430TX PCIset, Award Flash BIOS, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 4 32-bit PCI & 4 16-bit ISA Slots. 4 EIDE Support Ultra DMA 33MB/s rate , 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, USB port, ACPI / PC-98 Features, PC Health Monitoring (LM78), Baby AT size: 11" x 8.3"

Intel®Pentium® 166-200-233 MHz MMX	227/254/325
AMD K6™ PR2-200-233	244/289

ASUS TX97E $139

Intel 430TX PCIset, Award Flash BIOS, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 4 32-bit PCI & 4 16-bit ISA Slots (One shared), 4 EIDE Support Ultra DMA 33MB/s rate. 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, USB ports, Baby AT size: 11.1" x 8.6"

Intel®Pentium® 166-200-233 MHz MMX	246/272/343
AMD K6™ PR2-200-233	263/308

PENTIUM STYLE Intel® 430HX Chipset

TYAN TOMCAT IV 1564S $126

SUPPORT Single PENTIUM P75-200MHz, Intel® Triton-2 430HX Chipset, 512K Pipeline Burst Cache, 8/72-pin SIMM socket (512MB max.), 4 PCI / 4 ISA slots (one shared), 4 EIDE, 2 Floppy, 2-16550 serial, 1 ECP/EPP Parallel, 2-USB ports, Baby AT size: 8.66" x 13.25"

Intel®Pentium® 166-200-233 MHz MMX	239/265/336
AMD K6™ PR2-200-233	256/301

TYAN TOMCAT IV 1564D $164

SUPPORT Dual Intel® PENTIUM CPUs

CPU'S

INTEL	
150MHz Pentium® chip 3.5v	99
166MHz Pentium® chip 2.6v (MMX Tech)	119
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233MHz Pentium® chip 2.6v (MMX Tech)	209
180MHz / 200MHz Pentium® Pro chip	165/449
233MHz / 266MHz Pentium™ II chip	219/285
300MHz / 333MHz Pentium™ II chip	469/579
AMD	
K6™ PR2-166 / 200 (With MMX Technology)	119/132
K6™ PR2-233 / 266 (With MMX Technology)	175/CALL
CYRIX/IBM	
6x86MX™ PR166 / PR200	69/79
6x86MX™ PR233	119

MEMORY

30-Pin: 1MB,4MB	CALL
72-Pin: 1x32,2x32,4x32,8x32,16x32	CALL
168-Pin: 2x64,4x64,8x64,16x64	CALL

HARD DRIVES

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6400MB AC36400 Ultra DMA 3.5" 9ms	265
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QUANTUM	
4.3 GIG EIDE 5.25" (Bigfoot) QM54335CY	167
6.5 GIG EIDE 5.25" (Bigfoot) QM56510CY	179
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12.0 GIG ULTRA IDE (Bigfoot) QM51200TX-A	375

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DX700T 17" SVGA .25mm 1280x1024 NI	509
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E070 17" SVGA .28mm 1280x1024 NI	419
E072 17" SVGA .26mm 1280x1024 NI	465
Optiquest	
Q51 15" SVGA .28mm 1024x768 NI	189
Q53 15" SVGA .28mm 1280x1024 NI	219
V773 17" SVGA .26mm 1280x1024 NI	419
V775 17" SVGA .26mm 1600x1280 NI	479
V95 17" SVGA .26mm 1680x1280 NI	719

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Windows'95 104 Key Enhanced	14
FOCUS 2001 (w/dust cover)	25
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FOCUS 9200 (programmable/ built-in calculator/trackball)	45
Microsoft Elite Natural Keyboard	55
MS Compatible Serial 3 Button	8
Microsoft Ergonomic Serial or PS/2	25
Microsoft Intellimouse Serial or PS/2	29
Logitech Mouseman 3-Button Serial or PS/2	21
Logitech Marble Trackball Serial or PS/2	42

MODEMS

33.6 Internal w/voice Fax/Modem	35
33.6 External Fax/Modem w/voice	59
56K Internal Fax/Modem w/voice	59
56K External Fax/Modem w/voice	79
U.S. ROBOTICS	
33.6 Fax/Modem w/voice Internal	89
Sportster X2 / 56K Fax/Modem w/voice Internal	115
Sportster X2 / 56K Fax/Modem w/voice External	209

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NE2000 comp. ISA combo card	13
NE2000 comp. PCI combo card	15
3COM 3C905TX PCI 100MBS RJ-45	62
9-port, 18-port network hub	45/75

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LS120 120MB w/media	99

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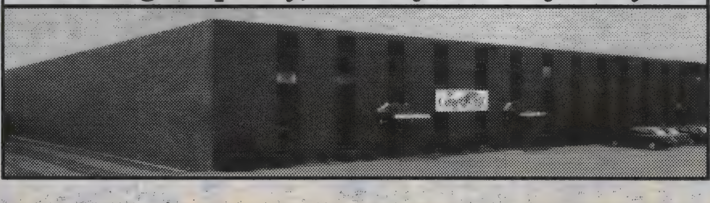

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Aptiva 700 Series (pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
Aptiva A Series (pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
Aptiva C Series (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
Aptiva M Series	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 330 Models 6571-6576	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 330 Model 6577 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 340 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 350 Models 6581-6585	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 350 Model 6586 (pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 350 Model 6587 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 730 Models 6875-6876 (pairs)	4Meg/8Meg/16Meg/32Meg	19/34/57/89
PC 730 Model 6877 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC 750 Models 6885-6886 (pairs)	4Meg/8Meg/16Meg/32Meg	19/34/57/89
PC 750 Model 6887 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	12/26/42/79
PC Server 310 (pairs)	4Meg/8Meg/16Meg/32Meg	19/34/57/89
PC Server 500 (ECC, pairs)	4Meg/8Meg/16Meg/32Meg	59/79/119/249
P/S 1, 30 Pin Simms	1/Meg/4Meg	10/24
P/S 1, 72 Pin Simms	4Meg/8Meg/16Meg/32Meg	19/34/57/89
P/S 2, 55SX, 65SX	4Meg	39
P/S 2, 53, 53LS, 56, 57	4Meg/8Meg	29/59
P/S 2 Server, 95, 195, 295 (ECC, pairs)	4Meg/8Meg/16Meg/32Meg	39/41/64/119

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IBM NOTEBOOK & LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Thinkpad 340, 345, 355, 350, C, CE	4Meg/8Meg/16Meg/32Meg	49/59/89/199	119.00
Thinkpad 365C, CS, CD, E, ED	4Meg/16Meg	34/79	109.00
Thinkpad 365X, 365XD	8Meg/16Meg/32Meg	39/59/149	119.00
Thinkpad 380, 380D, 385D	4Meg/8Meg/16Meg/32Meg	49/39/59/149	119.00
Thinkpad 500, *510CS*	4Meg/8Meg/16Meg	49/69/99	168.00
Thinkpad 560, 560E	8Meg/16Meg/32Meg/64Meg	49/59/89/339	
Thinkpad 700, 720, 750, CL57SX	4Meg/8Meg/16Meg/32Meg	39/79/159/268	179.00
Thinkpad 701, 701C, 701CS	4Meg/8Meg/16Meg/32Meg	29/39/79/159	119.00
Thinkpad 755C, CE, CD, CS	4Meg/8Meg/16Meg/32Meg	49/69/99/199	189.00
Thinkpad 760C, CD, L, LD	8Meg/16Meg/32Meg	49/69/149	145.00
Thinkpad 760E, ED, EL, ELD	8Meg/16Meg/32Meg	49/69/149	145.00
Thinkpad 760XD, 760XL	8Meg/16Meg/32Meg/64Meg	49/59/159/249	159/269
Thinkpad 765D, 765L	8Meg/16Meg/32Meg64Meg	49/59/159/249	159/269
Thinkpad 770 (SDRAM)	8Meg/16Meg/32Meg/64Meg	79/109/189/299	

COMPAQ MEMORY MODULES

Deskpro 450, 4100, 575, 590, 5100, 5133	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Deskpro 575, 5120, 5133, 5150, 5160 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Deskpro 2000, 4000, 6000 Series (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Deskpro 5/60M, 5/66M, XE560 (quads)	4Meg/8Meg/16Meg/32Meg	18/39/54/89
Deskpro XL 6150, 6200 (ECC, pairs)	8Meg/16Meg/32Meg/64Meg, 128Meg	Call
Deskpro 2000, Presario 4112, 4122, 4712, 4716, 5526, 5528	1Meg Video	29
Presario 5536, 9232, 9234, 9240, 9250, 9260, 9642, 9660	1Meg Video	29
Presario 510, 520, 524, 660, 720, 724, 860	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Presario 920, 924, 954, 974, 978, 992	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Presario 833, 850, 860, 866	4Meg/8Meg/16Meg/32Meg	18/39/54/89
Presario 5528, 7110, 7152	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Presario 7170, 7180, 9536, 9546, 9548, 9564 (pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Presario 9232, 9234, 9240, 9250, 9642, 9660 (pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Proliant 1000 5/60, 2000, R, 4000, R (quads)	4Meg/8Meg/16Meg/32Meg	19/28/54/69
Proliant 1500, 1500R (pairs)	4Meg/8Meg/16Meg/32Meg	18/39/54/89
Proliant 4500, 4500R (quads)	4Meg/8Meg/16Meg/32Meg/64Meg	18/39/59/99/199
Proliant 5000, 5000R (pairs)	32Meg/64Meg/128Meg/256Meg	Call
Prolinea 4/25S, 4/33, 4/66	2Meg/4Meg/8Meg	29/39/69
Prolinea 575, 590, 5100, 5120, 5133 (pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Prolinea 5100, 5120, 5133, 5150, 5166 (EDO pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Prolinea 575E, 100E, 120E, 575MX (pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Prolinea 590MX, 5120MX (pairs)	4Meg/8Meg/16Meg/32Meg	17/29/49/79
Prolinea 6150E, 6180E (pairs)	8Meg/16Meg/32Meg	34/49/79
Prosignia 300 5/75, 5/90, 5/120, 5/150 (pairs)	4Meg/8Meg/16Meg/32Meg	18/34/59/89
Prosignia 500 5/90, 5/120, 5/150 (pairs)	4Meg/8Meg/16Meg/32Meg	18/34/59/89

COMPAQ NOTEBOOK/LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Armada 1100, 1120T, 1120, 1125	8Meg/16Meg/32Meg/64Meg	49/69/139/269	105.00
Armada 1130, 1130T	8Meg/16Meg/32Meg	49/69/139	105.00
Armada 1510DM, 1520DM, 1550DMT	16Meg/32Meg/64Meg	69/139/269	
Armada 4100, 4110, D, 4120, T, 4130T (pairs)	4Meg/8Meg/16Meg/32/64Meg	29/49/79/139/269	
Armada 7710MT, 7730MT, 7750DMT	16Meg/32Meg/64Meg	59/139/239	
Concerto 4/25, 433	4Meg/8Meg/16Meg	49/59/89	124.00
Contura 4/25, 4/25C, 4/25CX	4Meg/8Meg/16Meg	49/59/89	119.00
Contura 400C, 400CX, 410C, 410CX	4Meg/8Meg/16Meg	49/59/89	105.00
Contura 420C, 420CX, 430C, 430CX	4Meg/8Meg/16Meg/24Meg	49/59/89/139	105.00
Contura Aero	4Meg/8Meg/16Meg	49/59/89	105.00
LTE 5000, 5100, 5200, 5300	8Meg/16Meg/32Meg/64Meg Kit	39/79/149/299	139.00
LTE Elite 440C, CX, 4/75CX	4Meg/8Meg/16Meg/24Meg	49/59/89/139	139.00
LTE Lite 425	4Meg/8Meg/16Meg	49/59/79	147.00
Presario 1000, 1010, 1020, 1030, 1070, 1080	8Meg/16Meg/32Meg	39/69/129	110.00
Presario 1207, 1210, 1610	16Meg/32Meg/64Meg	59/139/279	

DELL MEMORY

Dimension XPS M166S, M2090, P133s, 166s, 200s, P133v, 166v, 200v (SDRAM)	8Meg/16Meg/32Meg	39/54/99
Dimension XPS P60, P75, P90, P100 (pairs)	4Meg/8Meg/16Meg/32Meg	18/29/49/79
Dimension XPS P100c, 120c, 133c, 166c, XPS P75T, 100T (pairs) FPM or EDO	4Meg/8Meg/16Meg/32Meg	18/28/49/79
Dimension XPS Pro 150, Pro 200 (quads)	4Meg/8Meg/16Meg/32Meg	18/39/59/99
Dimension XPS Pro 150n, 180n, 200n (Edo pairs)	4Meg/8Meg/16Meg/32Meg	18/29/49/79
Optiplex GL, GM, GMT (Edo pairs)	4Meg/8Meg/16Meg/32Meg	18/29/49/79
Optiplex GS, GXL, GXM, GXMT (Edo pairs)	4Meg/8Meg/16Meg/32Meg	18/29/49/79
Optiplex GXI, GXpro, 6180, 6200 (Edo, Ecc)	16Meg/32Meg/64Meg/128Meg	73/127/249/572
PowerEdge 2100, 4100 (Edo, Ecc)	16Meg/32Meg/64Meg/128Meg/256Meg	73/129/249/572/1289

LASER PRINTER MEMORY UPGRADES

AMOUNT UPGRADED	OK Bd	256k	1	2	3	3.5	4	5	6	8	16	32
Brother 630, 631, 641, 645	–	–	39	59	–	–	–	–	–	–	–	–
Canon LBP 430	–	–	19	–	–	–	29	–	–	–	–	–
Canon LBP 860, 1260	–	–	–	14	–	–	29	–	–	39	59	99
Epson Action Laser 1100, 1600	–	–	14	19	–	–	29	–	–	39	59	–
Epson Action Laser II	–	–	74	–	123	–	–	180	–	–	–	–
Epson 8000, 1800, 4000, 4100, 4300	–	–	74	–	123	–	–	180	–	–	–	–
Epson 1000, 1500, 5000, 5200	–	–	–	49	–	–	98	–	–	–	–	–
HP 2, 2D–	–	–	–	59	–	–	79	–	–	–	–	–
HP 3, 3D, 3P, 2P+	–	–	–	59	–	–	89	–	–	–	–	–
HP 4, 4M, 4SI, 4SIMX	–	–	–	14	–	–	29	–	–	59	–	–
HP 4L	–	–	29	–	–	–	–	–	–	–	–	–
HP 4MP, 4P	–	–	9	19	–	–	24	–	–	39	–	–
HP 4+, 4M+, 4V, 4MV	–	–	9	19	–	–	24	–	–	39	59	99
HP 5, 5M, 5MP, 5N, 5P, 5SI, 5MX	–	–	9	19	–	–	24	–	–	39	59	99
HP 5L, 6L	–	–	–	–	–	–	49	–	–	99	–	–
HP 6MP, 6P	–	–	9	19	–	–	24	–	–	39	59	99
HP Design Jet 200, 220	–	–	–	–	–	–	29	–	–	44	–	–
HP Design Jet 230, 250C	–	–	–	–	–	–	29	–	–	44	59	99
HP Design Jet 330, 350C	–	–	–	–	–	–	29	–	–	44	59	99
HP Design Jet 600, 650C	–	–	–	–	–	–	29	–	–	44	–	–
HP Design Jet 650C, PS	–	–	–	–	–	–	29	–	–	44	59	99
HP Design Jet 700, 750C, Plus, 755	–	–	–	–	–	–	29	–	–	44	59	99
HP Deskjet 500, 500C, 510, 550,560	–	29	–	–	–	–	–	–	–	–	–	–
HP Deskjet 1200C, 1200C/PS, 1600C,1600CM	–	–	–	–	–	–	29	–	–	44	–	89
IBM Laser 4019, 4019E	–	–	–	–	–	109	–	–	–	–	–	–
IBM Laser 4029, 4037	–	–	–	–	–	–	49	–	–	–	–	–
IBM Laser 4039, 4079	–	–	–	39	–	–	69	–	–	99	–	–
Lexmark, Optra L, LX, R, RX	–	–	–	–	–	–	29	–	–	39	59	99
Lexmark Valuwriter 300,600	–	–	29	39	–	–	69	–	–	–	–	–
Lexmark Winwriter 200, 400, 600	–	–	29	39	–	–	69	–	–	–	–	–
Lexmark S Series	–	–	–	–	–	–	–	–	–	–	–	109
NEC 90, 290	–	–	–	89	–	–	–	–	–	–	–	–
NEC 95, 97	–	–	–	59	–	–	–	–	–	–	–	–
Oki 400E, 400EX, 410E, 410EX	–	–	67	89	169	–	189	–	–	–	–	–
Oki 810E, EX, 600E, EX, 610E, EX	–	–	29	79	–	–	119	–	–	149	229	–
Panasonic 4420/4450I	–	–	–	79	–	–	109	–	–	–	–	–
Panasonic 4410/4430	–	–	–	59	–	–	109	–	–	–	–	–
Panasonic 4450	–	–	89	–	–	–	–	–	–	–	–	–
Panasonic 4400/5400	–	–	49	69	–	–	109	–	–	–	–	–
Panasonic 4440, 5410	–	–	69	–	–	–	109	–	–	–	–	–
Panasonic 6500	–	–	14	14	–	–	39	–	–	–	–	–
Sharp 9400, 9460, 9600, 9700E	–	–	49	69	–	–	119	–	–	–	–	–
Sharp 9500, E, H, 9700, H	–	–	49	–	–	–	236	–	–	–	–	–

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Compaq Aero, 400, 410, 420, 430	109
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Epson Action Note 650, 660	119
Epson Action Note 800, 866, 880, 910	119
IBM Thinkpad 355, 360	119
IBM Thinkpad 365 C, ED, XD	129
IBM Thinkpad 701	109
IBM Thinkpad 750, 755	179
IBM Thinkpad 755 CD, CE, CV, CX	179
NEC Versa 2400, 2405, 2430, 2435	159
NEC Versa E, V	$135
NEC Versa S	99
Sharp 3010, 3020, 3050, 3060, 3150	129
Sharp 8700, 8800, 8900	129
TI 4000E	100
Toshiba 400, 405, 410, 415, 420, 425, 430 (NIMH)	219
Toshiba 100, 105, 110, 115, 200, 205	105
Toshiba 2100 Series	99
Toshiba 2400, 2450, 1900, 1950, 1960	109
Toshiba 4700, 4800, 4850, 4900	109
Toshiba T4500, T4600	159
Winbook XPC, XP, XP5	119

TOSHIBA LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Libretto 50CT	8Meg/16Meg	59/99	
Tecra 500CDT, CS, 510CDS, CDT	8Meg/16Meg/32Meg/48Meg/128Meg	39/69/129/209/469	234.00/249.00
Tecra 520CDT, 530CDT	8Meg/16Meg/32Meg/48Meg/128Meg	39/69/129/209/469	234.00/249.00
Tecra 700CS, 700CT (SDRAM)	8Meg/16Meg/32Meg	59/109/209	—/252.00
Tecra 710CDT, 720CDT, 730CDT	8Meg/16Meg/32Meg/64Meg/128Meg	59/89/139/259/499	—/252.00
Tecra 730XCDT, 740CDT	8Meg/16Meg/32Meg/64Meg/128Meg	59/89/139/259/499	—/252.00
T2000SXE	8Meg	79	161.00
T2100 Series	4Meg/8Meg/16Meg/24 Meg	39/49/89/129	104.00
T1900, T4500, T4600, T4700, T4900 All Models	4Meg/8Meg/16Meg/32Meg	39/59/89/149	109.00
T2400, T3400, T3400CT, T3600	8Meg/16Meg	49/74	119.00
Satellite T100CS, 105CS, 110CS, 110CT, 115CS	8Meg/16Meg/32Meg	59/79/139	119.00
Satellite 200CDS, 205CDS Series	8Meg/16Meg/32Meg	59/79/139	119.00
Satellite 220CDS	8Meg/16Meg/32Meg/48Meg/128Meg	39/69/139/209/479	239.00
Satellite T400 Series, T600 Series	8Meg/16Meg/32Meg	59/79/139	229.00
Satellite Pro 440, 445, 460	8Meg/16Meg/32Meg/48Meg/128Meg	49/89/169/289/469	239.00
Portege 300	16Meg/32Meg	69/149	
Portege 650CT, 660CT	8Meg/16Meg/32Meg/64Meg	39/69/139/249	265.00

NOTEBOOK, LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
ACERNote 730C, 735C, 760C, 760CX, 780CX	4Meg/8Meg	45/64	119.00
ACERNote 763, 765, 782, 784, 786	4Meg/8Meg/16Meg	29/45/69	
ACERNote Light 350, 352, 355	4Meg/8Meg/16Meg	29/45/69	179.00
ACERNote Light 356, 358, 359, 361 (pairs) edo	4Meg/8Meg/16Meg	29/45/69	179.00
ACERNote Nuovo 971, 972, 372, 373, 374	8Meg/16Meg/32Meg	45/69/139	
ACERNote Pro 950, 954, 955, 957, 959 (pairs)	4Meg/8Meg/16Meg	29/45/69	
Ambra SN Series	4Meg/16Meg	49/99	79.00
Ambra N-75, N-100	4Meg/8Meg/16Meg	19/59/99	119.00
AST Ascentia A41, A42	8Meg/16Meg/32Meg/64Meg	39/59/139/279	179.00
AST Ascentia P30, P50	8Meg/16Meg/32Meg	59/89/149	
AST Ascentia J10, J30,J50 (pairs)	4Meg/8Meg/16Meg/20Meg	29/39/69/89	169.00
AST Ascentia 800N, 810N, 900N, 910N	8Meg/16Meg	59/89	185.00, 119.00
AST Ascentia 950N	8Meg/16Meg	59/89	185.00
AST Bravo & Explorer	4Meg/16Meg	49/79	119.00
AT&T Globalyst 130, 200, 250	4Meg/8Meg/16Meg	24/39/69	109.00
Austin DX4, DX2, SX2, SX Series	4Meg/16Meg	69/179	126.00
Austin Edge CD P-133 edo	8Meg/16Meg/32Meg	59/89/199	
Austin Edge Duet (pairs) edo	8Meg/16Meg	39/69	
Canon 1100, 300P (pairs)	4Meg/8Meg/16Meg	29/39/69	126.00
Canon Innova Book 150, 175	4Meg/16Meg	49/139	119.00
Canon Innova Book 350CD, 360, 475	8Meg/16Meg	39/69	
Canon Innova Book 480, 490 edo	8Meg/16Meg	39/69	119.00
CTX EZ Book *500*, 600, 700 Pent, Series	4Meg/8Meg/16Meg	29/39/69	137.00
DEC HiNote	4Meg/8Meg/16Meg	29/39/69	102.00
DEC HiNote Ultra, Ultra II	4Meg/8Meg/16Meg/32Meg	29/39/69/169	
DEC HiNote VP 520, 525, 535, 545 (pairs)	4Meg/8Meg/16Meg	29/39/69	119.00
DEC HiNote VP 5100, 5120	8Meg/16Meg/32Meg/64Meg	39/69/129/269	119.00
DEC HiNote VP, Css, LSS, CTS, LTS	8Meg/16Meg/32Meg/64Meg	39/69/129/269	
Dell Lattitude LM (pairs)	4Meg/8Meg/16Meg	29/39/69	
Dell Lattitude 433, C, CX	4Meg/16Meg	49/89	
Dell Lattitude LX, M	4Meg/8Meg/16Meg	49/59/89	105.00
Dell Latitude XP, XPI	4 Meg/8Meg/16Meg/32Meg	29/39/69/149	
Epson ActionNote 650, 650c, 660c, 660cx	4Meg/8Meg/16Meg	19/59/89	119.00
Epson ActionNote 880, 880c, 890, 910	4Meg/8Meg/16Meg/20Meg	29/49/79/169	119.00
Epson ActionNote 4LC/25, 4LC/33, 4SLC/2-50, 4000	8Meg	69.00	70.00
Fujitsu Lifebook 500, 600 Series edo	8Meg/16Meg/32Meg/64Meg	39/59/129/239	
Fujitsu Monte Carlo, Montego, Milan	8Meg/16Meg/32Meg	59/139/139	
Gateway 2000 Colorbook 4/33	4Meg/16Meg	69/179	112.00
Gateway 2000 486 Handbook or Liberty	4Meg/16Meg	29/69	
Gateway 2000 Solo Series (pairs)	4Meg/8Meg/16Meg	29/39/69	
Gateway Solo Series 2100, 2200 edo	8Meg/16Meg/32Meg	59/119/209	
Gateway Solo 9000, 9100, 2300	16Meg/32Meg/64Meg	59/139/279	
Hitachi C-Series	8Meg/16Meg/32Meg	39/59/129	
Hitachi E-Series, MX Series	8Meg/16Meg/32Meg	59/89/149	119.00
Hitachi M-Series	8Meg/16Meg/32Meg	59/89/149	105.00
Hitachi Visionbook	8Meg/16Meg/32Meg/64Meg	39/59/149/239	
HP Omnibook 800	8Meg/16Meg/32Meg/64Meg	59/89/149/259	
HP Omnibook 4000C, CT, C	4Meg/8Meg/16Meg	49/59/89	126.00
HP Omnibook 5000CT, CTS, C, 5500CS	8Meg/16Meg/32Meg/64Meg	59/79/139/259	126.00
Micron MilleniaTransport Pentium (pairs)	8Meg/16Meg	49/69	
Midwest Micro Elite or Soundbook	4Meg/8Meg/16Meg	49/89/149	84.00
Midwest Micro Elite or Soundbook Plus or Smith II, MP	4Meg/8Meg/16Meg	49/89/149	119.00
Midwest Micro Elite or Soundbook CD	4Meg/8Meg/16Meg	49/79/129	
NEC Ultralite Versa, E, V, MP	4 Meg/8Meg/16Meg/32Meg	49/59/79/149	135.00
NEC Versa S, Versa 2000C, D, 2205C	4Meg/8Meg/16Meg	29/45/69	110.00
NEC Versa 2400 Series, 2530, 2535 (Edo pairs)	4Meg/8Meg	39/69	168.00
NEC Versa 2600 Series (pairs)	8Meg/16Meg/32Meg	49/89/199	
NEC Versa 4000, 4050/4080, 4200, 4230	4Meg/8Meg/16Meg/20Meg	49/69/89/139	
NEC Versa 6000, 6050, 6030	8Meg/16Meg/32Meg/64Meg	59/89/149/259	
NEC Versa 6200MX edo	8Meg/16Meg/32Meg/64Meg	59/89/149/259	
Packard Bell Statesman	2Meg/8Meg	39/69	169.00
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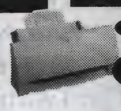

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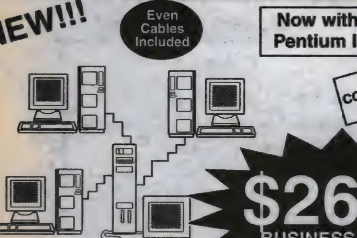

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w/4.3 HD...$229
$179

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w/32x CD...$99
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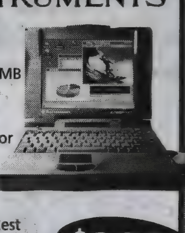
CD P75



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- PCMCIA Type II & III Slot.

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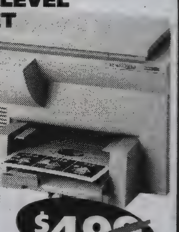

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- 1 Year Warranty

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- Fact ory Renewed • Auto Load Assist

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4 MV

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- Postscript
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VOICE SURFER	
56K INT DFV / EXT	88 / 107
56K DFV ISA	95

SUPRA $20 REBATE

EXPRESS	
33.6 INT	44*
56 K INT/ EXT	77* / 97*
56 I SP	95*
56 K PC CARD	125*

U.S. Robotics

56K WINMODEM	88
56K INT / EXT	139 / 159
56K VOICE INT/EXT	159/229

ZOOM

56K INT / EXT	95 / 107

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56K INT / EXT	88* / 109*
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56K SPKPHONE EXT	129*
OPTIMA 56K INT	229*
OPTIMA 56K EXT	239*

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3250 - 56 X 2 ISA WIN	77*
2460 - 33.6 X 2 EXT	88*
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3440 - 56 X 2 ISA PWP	100*
3640 - 56K X 2 INT SPK	115*

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XPERT PLAY 8MB	209
XPERT WORK 8MB	205

3D TURBO	
PC 2 TV 4MB/8MB	155 / 195
3D EXPRES. PC 2 TV 4/8MB	85/105
TV TUNER for 3D VID,EXP.	79
GL 1000 Pro	209

HARD DISKS

WESTERN DIGITAL CAVIAR

.2	~~139~~	3.1	~~169~~
.6	~~159~~	4.0	~~239~~
.1	~~159~~	5.1	~~235~~
.5	~~179~~	6.4	~~299~~

SEAGATE 1-DE

2.1G	~~129~~
2.5G	~~155~~
3.2G	~~169~~
4.3G	~~215~~
6.4G	266

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AMERICAN POWER CONVERSION

ViewSonic

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420	129
650	199
1000E	295
400E	369

SMART-UPS NET SERIES	
700	339
1000	459
1400	588
2200	888
2200 XL	1166
3000	1588

BACK UPS PRO PWP	
OFFICE	93
280	125
420	199
650	239
1400	348
1000	449

PRINTERS DOT MATRIX/INKJET

Canon BUBBLEJET

240*	99	4300*	144
250	129	4300	169
250*	115	4550*	219
30 *	99	4550	269
70*	155	7000	299
80	249	610*	144
		620	269

NEC

100 C	79*
150 C	88*
750 C	159*

ALPS

1000	248*
2010	248
2300	588

LEXMARK

1000	75*
2050*	169
3000	179
5700	229
7000	277*
7200	329
7200 V	435
2380*	244
2381*	355
2390*	295
2391*	395
4227	1219
4000	488

OKIDATA

184 T	205	391T	419
320 T	297	590+	408
321 T	408	591+	565
520+	355	395+	959
521+	459	395 C	1039
390T	315	3410	1277

2ND INVENTORY

184 T	119	521+	255
320+	219	590+	225
321+	219	591+	288
520+	225	395+	544

EPSON

LX 300	149
FX 870*	255
FX 880	277
FX 1170	339
FX 2170	418
LQ 570+	239
LQ 670	318
LQ 1070*	265
LQ 870	409
LQ 1170	349
LQ 2070	369
LQ 2170	498

STYLUS

400	159
600	209
800	285
800 N	519
PHOTO	315
1500	385
1520	688
PRO XL*	444
DFX 5000*	1188
DFX 8000*	2139

HEWLETT PACKARD DESKJET

400 L	139	722 C	279
672 C	188	890 CXI	348
340	239	890 CSE	377
660 C*	219	1000 CXI	359
690 C	209	1120 CXI	465
692 C	199	1600 C*	711
694 C	222	1600 C	1269
720 C	259	1600 CM*	1088

Panasonic

1150	129	3124*	235
2023	169	3200	227
2130	179	3626*	265
3123*	179	3696*	365

LASER PRINTERS

MINOLTA

6 L	239
6 E	349
12 L	649
20 L	939
COLOR	2699

Tektronix PHASER

Z 140	~~1439~~
Z 350	~~2869~~
Z 350 F	3988
Z 560	3888
Z 560 F	4988
Z 300 XA	4888
Z 400 XB	5877
Z 380 A	6788

OKIDATA

OP 4 W	179
600 e*	199
6 E	259
6 EX*	349
810 e*	469
101	588
101 N	788
20	1088
20 DX	1349
1200	769
1200 EPS	CALL
16 N	769
8 Color	NEW

Canon

460	177

brother

630*	188
645*	288
720	259
730 DX	279
760	369
1060	648
1260	933
1660	1133
2400C	NEW
5300	CALL

QMS

2 CX	3399
2 EX	4888
CX 8MB	5499

NEC

660+*	149*
860*	235*
1260	585
1260 N	838
1760	888
1765	CALL

Panasonic

4400*	149
6100*	199
6500*	249
S 600	518
4440	699
8410	2388
8410 D	3388
8475	3199

LEXMARK

S 1250*	888	S 2420	1535
S 1250N*	1039	S 2420 N	1665
S 1620	977	S 2450	1688
S 1620 N	1265	S 2450 N	2188
S 1650*	988	SC 1275	3244
S 1650 N*	1277	SC 1275 N	3688

4049 OPTRA

6 E*	315	COLOR *	2888
16 LX*	1188	C. PRO*	4288
N 240	2349	4039 10+*	788
N 245	3188	4039 12+	848

IBM

NP 12	1188
NP 17	1488
NP 24	2688
NCP CLR	4688

FUJITSU

10 V	788
14 AV	988

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6-L*	288	4000 T	1188	5SI NX*	2385
5-P*	435	4000 TN	1439	5-SI MX*	2737
6-P*	649	5000	1488	5-SI MX	2988
6-MP	844	5000 N	1949	CLR 5*	3288
3100C	666	5000 GN	2588	CLR 5-M*	4388
5*	965	5-M*	1225	COPYJET	
4000	1059	4-V*	1215	1150 C	688
4000 N	1359	4-MV*	1717	1150 C*	559
		5-SI*	2088	220V...CALL	

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4508	588	C 55	3888
4512 +	~~1177~~	C 55 MP	4888
4512 N	~~1499~~	N 24	~~2477~~
4517	~~1377~~	N 32	~~2877~~
4517 MP	~~1888~~	4925	6888

EPSON

1200	925
2000	1577

CALL FOR MODELS NOT SHOWN

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3 NE	14	165
500 S	15	219
500 B	15	249
500 P	15	288
5 E	15	199
7 E	17	425
700 S	17	439
700 B	17	439
700 P	17	535
700 UP	17	649
17 GL SI TCO		518
20 GL SI		888
21 GLS	21	1349
CGX 1609 T		1388
400 TFT		1399
500 TFT		2399

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4010	14	185
5011	15	229
5314	15	288
7000	17	448

iiYAMA

8515 F	15	288
8617 E	17	525
9017 E	17	599
S 9012 GT	19	799
9021 E	21	1139
9221 E	21	1349
8721 E	21	1199
8221 E	21	1248

NEC

E 500	15	313
E 700	17	CALL
A 500	15	249
A 700	17	477
M 500	15	335
M 700	17	639
P 750	17	744
P 1150	21	1277
E 1100	21	1177
LCD 400	14	1849
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CTX

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VL 500	15	185
VL 700	17	339
VL 710	17	429
PR 500	15	279
PR 700	17	459
PR 710	17	569
EX 700	17	399
1785 XA	17	399
EX 800	20	799
EX 900	21	999
PV 300		935
PV 550		1288
PV 540		1388
PV 630		1688

PRINCETON

UL 40	14	159
UL 51	15	209
UL 72	17	348
UL 80	20	929
EO 400	14	159
EO 50	15	219
EO 500	15	259
EO 70	17	377
EO 72	17	455
EO 74	17	549
EO 75	17	499
EO 76	17	609
EO 90	19	688
AR 2.7 AV		898
AR 3.1 AV		1188
LD 50		1388
C 2001	21	1377

EIZO-NANAO

F 560 IW		1125
FX B5	15	479
FX C5		655
FX C6	17	769
FX E7	21	1588
FX E8	21	2148
TXC 7	17	808
TXC 7S	17	948
6600		1025
TXD 7S		1599
FX 2-21		2688

SONY

100 ES	15	288
100 GS	15	349
200 ES	17	539
200 GS	17	618
200 PS	17	777
400 PS	19	1088
300 SFT	20	1088
500 PS	21	1625

NOKIA

449 E	15	299
449 XA	15	315
447 Z	17	439
447 ZA	17	509
447 W	17	588
447 X I	17	586
447 X PRO		649
446 PRO	19	977
445 XAV	21	1377
445 X PRO		1425
300 XA	13.3	1949

HITACHI

500 U	15	285
620	17	488
630	17	569
751	19	828
752	19	988
800 U	20	1188
802 U	21	1239
803 U	21	1488

MAG

410 V2	14	149
510 V2	15	199
710 V2	17	379
720 V2	17	418
DX 500T	15	318
DX 700 T		549
D X 715 T		649
DJ 530		229
DJ 700		469
DJ 702 E		488
DJ 707		488
DJ 717		577
DJ 800	19	727
DJ 920		1159

ADI

PV 14	14	139
PV E 30	14	149
PV E 40	15	188
4 P	15	199
5 P	17	369
5 P +	17	429
5 G	17	459
5 GD	17	549
6 P	19	699
6 G	21	1035

Mittsubishi

DIAMOND PRO		
15VX	15	318
67 TXV	17	555
87 TXM	17	599
P 700	17	737
70	17	539
91 TXM	21	1269
P 1000	21	1518
1010 E	21	1747

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Q 41	14	155
Q 51	15	179
Q 53	15	199
V 655	15	219
V 773	17	399
V 775	17	459
Q 71	17	339
V 95	19	688
Q 100	20	877
V 115	20	988

Panasonic

E 50	15	235
S 15	15	265
P 15	15	288
PM 15	15	329
S 70	17	439
SL 70	17	499
P 70	17	609
PF 70	17	729
E 110	21	1118
E 21	21	1139
S 21	21	1229
P 21	21	1409
LC 40	14	2288
S 110	21	1277

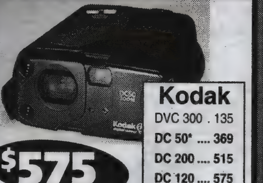
ViewSonic

E 41	14	169
E 641	14	165
E 51	15	218
E 655	15	219
15 GA	15	288
15 GS	15	277
G 653	15	252
E 771	17	388
EA 771	17	459
GS 771	17	477
17 GA	17	518
PT 770	17	588
PT 775	17	659
GT 775	17	577
G 771	17	419
G 773	17	459
P 775	17	549
G 790	19	777
G 800	20	939
G 810	21	966
P 810	21	1039
PT 813	21	1319
P 815	21	1218
29 GA	29	1935
VPA 138	14	1188
VPA 140	14	1339
VPA 145	14.5	1639
VPA 150	15	1888
WALL MOUNT		99

DIGITAL CAMERAS

KODAK

DC 120
DIGITAL CAMERA with Zoom



- 756 x 504
- 1.2 Millions Pixels Image
- Built in 3 x Zoom 38-114mm
- Memory Upgradable

$575

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DC 50*	369
DC 200	515
DC 120	575
DC 210	649

RICOH

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RDC 2 Mntr*	465
RDC 300	325
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EPSON PHOTO PC

550 C	244
600 C*	499

Agfa

E PHOTO 307	299
E PHOTO 780	449
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SONY MAVICA

FD 5	429
FD 7	629

CASIO

QV 11	249
QV 70	259
QV 200	365
QV 770	349
QV 5000	577
QV 700	429

Canon P SHOOT

350	339
600	544

Nikon Cool Pix

E 100	235
300	439*

OLYMPUS

D 200 L*	339
D 220 L*	375
D 320 L	539
D 500 L	759
D 600 L*	1049

SCANNERS

MICROTEK SCANMAKER

E 3+	129
V 300	115
V 310	122
V 600	222
E 6	188*
E 6 PRO	399*
35 T +	688
III	1299
6400 XL	888
9600 XL	1369
5	SUPER

EPSON 636 EXPRESION

EXECUTIVE	655
ARTIST	888
PROFSSNL	1199
836 XL	SUPER

FUJITSU SCAN PARTNER

10 C	888
600 C	1188

UMAX

PG OFF. IIC	135
ASTRA	
610 P	98*
610 S	125*
600 P	139
1210 P	165
1200 S DLX	215
1200 SPS	415

Agfa

SNAPSCAN 6	349
STU. STAR	888
ARCUS II	1588

HEWLETT PACKARD

5 S	155
5100 C	266
6100 C*	619
6100 C	699
6100 CSE	777

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I X	85*
M X	85*
3100	88*
6000	125*
STROBE	125*
STROBE P	159*

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Canon

540*	175
640	269
2500*	199
3000	313
5000	444
6000	588
4000	788
4500	888
9000	CALL

LUMINA

2096*	199

RICOH

1700	1099
2700 L	1349
3700 L	1488
3800 L	NEW
4700 L	SUPER
MV 310	1125

brother

190	119
290	179
390	209
1170*	225
1770 M	288*
1950 +*	318*
4450*	479
4500*	388
4550+	625
6550	629
7550	888
7000	649
7200 FC	988
7650	875

SHARP

UX 105*	118
196*	125
365	155
455	155
UX 1100*	265
UX 1400	375
UX 1500	444
FO 1460	288
FO 1660	329
FO 1850	309
FO 3850	CALL
FO 4500	FOR
FO 5500	BEST
FO 6500	PRICE

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MIP 10	~~799~~
MIP 20	899
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330*	339
500*	315
520*	333
570	369
590	488
600	459
630	479
1150C*	699
3100 XI	699
LJ COMPANION	218

OKIDATA

OFFICE 44	465
1000	777
2200	899
2300	1399
2400	1788
5300	CALL

Panasonic

880	229*
P 200	233*
P 210	279*
P 220	329*
1600	459*
4200*	599
S 100	499

Panafax

332	599
342	635
344	CALL
550	909
560	SUPER
770	1639
770 INTN	CALL
880	SUPER

COPIERS

Canon PC

PC 300	229*	PC 740	618	NP 2120	~~2699~~
PC 320	259	PC 770	666	CJ 7	766
PC 325	309	PC 850	1188	C 100	1099
PC 11*	625	NP 6016	~~2399~~	C 150	CALL
PC 720*	477	NP 1820	~~2499~~	C 180	CALL
				C 300	CALL

HEWLETT PACKARD

OfficeJet 1150 C	727
COLOR Copier 110	499
COLOR Copier 210	799
COLOR Copier 210 LX	888

SHARP

Z 52	239	Z 820	599	2214	1449
Z 57	319	Z 835	725	2116	1349
Z 85	449	SF 2014	717	2118	1649
				2120	1849

AT&T

- 4MB RAM
- NIMH Battery • DX 4/75
- 340 MB • 1.44 Floppy Drive
- 9.5" Dual Scan Color • 5.5L
- Type II or III PCMCIA
- DOS, WIN • 110-250A

$599

DX 4/75	8	340M	9.5 DS	679
DX 4/75	16	340M	9.5 DS	769
DX 4/75	16	340M	9.5 AC	799

GLOBALYST 200

HEWLETT PACKARD

DROP-ON-DEMAND INKJET

DESKJET 720 C
- Up to 600 DPI • 8 Page Per Minute
- 1 Year Warranty

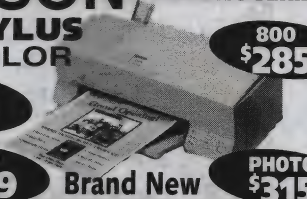
$259

DESKJET 1600 C ...$999

EPSON

THE AWARD-WINNING SERIES

STYLUS COLOR



800 **$285**

400 **$159**

600 **$209**

Brand New

PHOTO **$315**

HEWLETT PACKARD

COLOR OFFICE JET 4 in 1

OfficeJet 630C

P.P. FAX: • 1MB Memory • Tel/Ans. Machine Int

PERSONAL COPIER:
- 1.5 Copies per Minute • Factory renewed
- Auto Doc. Feed • Make up to 99 Copies

PRINTER: • 5 PPM • 600 DPI

SCANER: • up to 1200 DPI • OCR Software Included

BLACK INK..$49 COLOR INK..$59

brother 7000 C

- *COLOR FAX • COLOR PRINTER*
- *COLOR SCANNER • MODEM &*
- *COLOR COPIER*

$588*

6550 **$588**

4550 **$444**

7550 **$688**

FAX, PRINTER, SCANNER, MODEM & COPIER

• 600 DPI • 6 PPM • Factory Renewed • Up To 4 MB

TONER	DRUM	1MB Upg	2MB Upg
$59	$149	$59	$239

HEWLETT PACKARD

LaserJet 4000 N

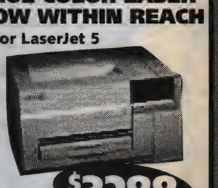
FAST & EXPANDABLE NETWORK PRINTER

- Up to 1200DPI • Up to 17 PPM
- Postscript Level 2 Emulation
- Interface, Parallel, Ethernet
- 8MB RAM UP TO 76MB • 1 Year Warranty
- 250 Sheet Capacety
- Optional: Large Capacety Sheet Feed Unit,

$1359

HEWLETT PACKARD TRUE COLOR LASER NOW WITHIN REACH

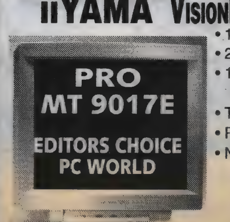
Color LaserJet 5



- Vivid: HP Image REt 1200 for outstanding print quality Equivilant of 1200DPI
- Color Output 2-3 PPM
- 10 PPM FOR B&W
- Factory Renued • 250 Sheet Tray
- Optional: 250 Sheet Feed Unit, PostScript L2, Networking
- 1 Year Warranty

$3288

iiYAMA VISIONMASTER



PRO
MT 9017E
EDITORS CHOICE
PC WORLD

- 17" Tension Mask
- 25mm Dot Pitch
- 1280 x 1024 Resolution @ 85Hz
- Tilts & Swivels
- Plug & Play
- Non Glare High Contrast Screen

$599

S 9012 GT 19"...$799

e to the volatility inherent in the industry price may vary from published listing. Mail/phone orders Allow 10 days for checks to clear. Returns require RA# and are subject to twenty percent restocking fee en in new condition and excludes shipping/handling charges. Business copiers require professional installation and check in advance. Not responsible for Typographical errors. (*)=Factory Serviced: Likenew ndition; New Box, Packaging, Manual, with MFG. Warranty. (*) after a price = MFG. rebate.

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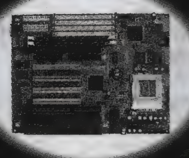

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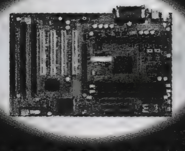

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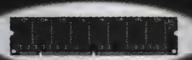

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62253	FX320S	32X EIDE	$99.00
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59240	ISA SCSI 2	$49.00
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82235	AHA1542C ISA SCSI W/KIT	$269.00
59565	AHA2910 PCI SCSI W/KIT	$109.00
56885	AHA2940U PCI SCSI	$189.00
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56420	AHA2940UW PCI SCSI	$249.00
59783	AHA2940UW PCI SCSI W/KIT	$289.00
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56425	AHA3940 PCI SCSI	$439.00
56430	AHA3940UW PCI SCSI	$419.00
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59484	3510A ISA FAST SCSI 2	$45.00
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61480	16 BIT SINGLE PNP SERIAL 1.3M	$39.80
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81500	TEAC	3.5" 1.44MB	$29.00
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60680	3C905TX ETHERLINK XL PCI 100BASE-TX	$99.00
61680	3C16704 OC 4 PORT HUB RJ-45 TP4	$60.00
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55165	9440 PCI SVGA CARD 1MB	$29.00
55175	9680 PCI SVGA CARD 1MB	$39.00
62367	9685 PCI SVGA CARD 1MB	$39.00
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50880	15 FT	$21.50
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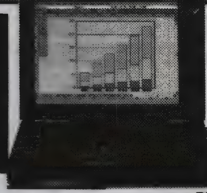

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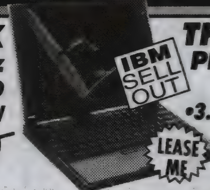

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PROC.	RAM	HDD	CD-ROM	DISPLAY	PRICE
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P150MMX	16MB	2.1GB	OPT.	11.3" DS	~~$1699~~
P233MMX	32MB	4GB	OPT.	12.1" TFT	~~$3799~~

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MOD.	PROC.	RAM	HDD	CD-ROM	DISPLAY	PRICE
760XD	P166MMX	32MB	3.0	8x Speed	12.1" XGA	~~$2999~~
765D	P166MMX	32MB	3.0	8x Speed	13.3" TFT	~~$3499~~
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305CS	166MMX	16MB	2.1	16X Speed	12.1" DS	~~$1699~~
440CDX	133MMX	16MB	1.4	10X Speed	12.1" DS	~~$1399~~
445CDT	133MMX	16MB	1.4	10X Speed	12.1" TFT	~~$1699~~
460CDT	166MMX	16MB	1.4	10X Speed	12.1" TFT	~~$2599~~

MOD.	PROC.	RAM	HDD	CD-ROM	DISPLAY	PRICE
LIB.50CT	P75	8MB	772	OPT.	6.1"TFT	~~$999~~
500CDT	P120	16MB	1.2	10X Speed	12.1"TFT	~~$1499~~
510CDT	P133	16MB	2.0	10X Speed	12.1"TFT	~~$1849~~
530CDT	166MMX	32MB	2.0	10X Speed	12.1"TFT	~~$2999~~
550CDT	266MMX	32MB	3.8	20X Speed	12.1"TFT	~~$3699~~
740CDT	166MMX	16MB	3.0	10X Speed	13.3"TFT	~~$2799~~
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MOD.#	PROC.	RAM	HDD	CD	DISPLAY	FAX	PRICE
1530DM	P133MMX	16MB	1.4	10x	12.1"DS	33.6	~~$1499~~
1540	P150MMX	16MB	2.1	20x	12.1"DS	33.6	~~$1899~~
4160T	P166MMX	16MB	2.1	OPT	12.1TFT	—	~~$2199~~
1585DMT	P150MMX	16MB	2.1	12x	12.1"TFT	33.6	~~$1999~~
1590DMT	P166MMX	16MB	2.1	20x	12.1"TFT	56K	~~$2949~~
1560DM	P166MMX	16MB	3.1	20x	12.1"DS	56K	~~$2199~~
1560DMT	P233MMX	16MB	3.1	20x	12.1"TFT	56K	~~$3499~~

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MOD.#	PROC.	RAM	HDD	CD	DISPLAY	FAX	PRICE
1080	166MMX	16MB	1.3	10X	12.1"TFT	—	~~$2299~~
1210	P150	16MB	1.4	14x	12.1"DS	33.6	~~$1399~~
1215	P180	24MB	1.6	14x	12.1"DS	56K	~~$1599~~
1220	P200	32MB	2.1	20x	12.1"DS	56K	~~$1899~~
1610	P150MMX	16MB	1.6	14x	12.1"DS	56K	~~$1549~~
1620	P166MMX	16MB	2.0	20x	12.1"TFT	56K	~~$1799~~
1621	233MMX	16MB	2.1	20x	12.1"DS	—	~~$2299~~
1622	233MMX	16MB	2.1	20x	12.1"DS	56K	~~$2349~~
1680	P200MMX	32MB	2.1	20x	12.1"TFT	56K	~~$2499~~
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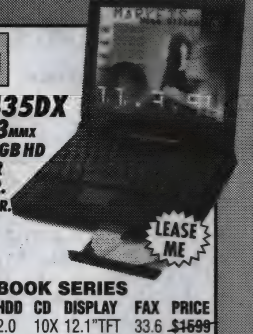

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555TX	150MMX	16MB	2.0	10X	12.1"TFT	33.6	~~$1899~~
634TX	133MMX	16MB	2.0	OPT.	12.1"TFT	33.6	~~$1799~~
655TX	166MMX	16MB	2.0	10X	12.1"TFT	33.6	~~$2199~~
735dx	133MMX	16MB	1.4	20X	12.1"DS	56K	~~$1299~~
656TX	150MMX	16MB	2.0	16X	12.1"TFT	33.6	~~$2499~~
755TX	150MMX	32MB	2.0	20X	12.1"TFT	56K	~~$1699~~

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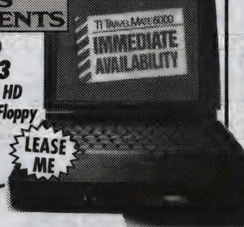

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392C	P150MMX	16MB	2.1	20X	12.1"DS	New	~~$1199~~
393C	P166MMX	16MB	2.1	20X	12.1"DS	New	~~$1399~~
393T	P166MMX	32MB	2.1	20X	12.1"TFT	New	~~$1799~~

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MOD.#	PROC.	RAM	HDD	CD	DISPLAY	Stock	PRICE
7120T	P200MMX	32MB	3.2	20X	12.1"TFT	New	~~$2699~~
7130TE	P233MMX	32MB	3.2	20X	13.3"TFT	New	~~$3199~~
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7340	P133MMX	16MB	1.4	10X	12.1"DS	56K	~~$1699~~
4360X	P166MMX	16MB	2.1	10X	12.1"TFT	33.6	~~$1799~~
7360	P166MMX	32MB	2.1	10X	12.1"TFT	56K	~~$1949~~
8560	P166MMX	16MB	2.1	10X	13.3"TFT	56K	~~$2499~~
7580M	P233	32MB	3.2	20X	13.3"TFT	56K	~~$3399~~

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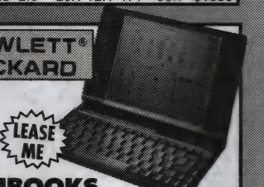

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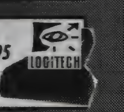

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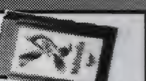

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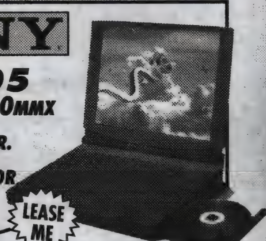

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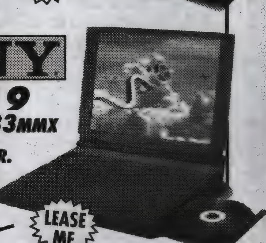

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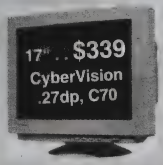

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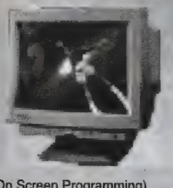

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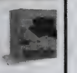

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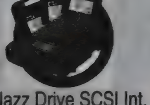

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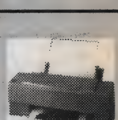

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- **Built-In FM Stereo Tuner**
- PS2 104 Enhanced KB, PS2 Mouse
- **32X CD-ROM Drive**
- 32 Bit Ensoniq Stereo Sound
- Premium Stereo Speaker System With Sub-Woofer, 200Watt
- Premiere CD Bundle w/Encycl. 98
- Windows 95 CD
- Lotus Smart Suite or Corel 8.0 CD
- **ATX Form Mid-Tower Case**

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5 Year Warranty

Pentium® II 233MHz	**$1419**
Pentium® II 266MHz	**$1539**
Pentium® II 333MHz	**$1889**

Premiere LXP MMX Technology $2039
Model 1205

- **Intel Pentium II 333MHz**
- **64MB** Fast SDRAM
- 512K Integrated L2 Cache
- **INTEL® 440LX Chipset**
- **12 GB Ultra** DMA Hard Drive
- **ATi All-In-Wonder Pro 8MB AGP, TV Tuner**
- 3.5" Floppy Drive
- 56Kbps Fax, Modem, Caller ID, Voice, Speakerphone
- Desktop Microphone
- PS2 104 Enhanced KB, PS2 Mouse
- **32X CD-ROM Drive**
- **Ensoniq 32 Bit Wave Table** Sound
- Premium Stereo Speaker System With Sub-Woofer, 200Watt
- Premiere CD Bundle w/Encycl. 98
- Windows 95 CD
- Lotus Smart Suite or Corel 8.0 CD
- **ATX Form Mid-Tower Case**

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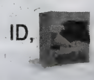

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Pentium® II 266MHz	**$1669**
Pentium® II 300MHz	**$1829**

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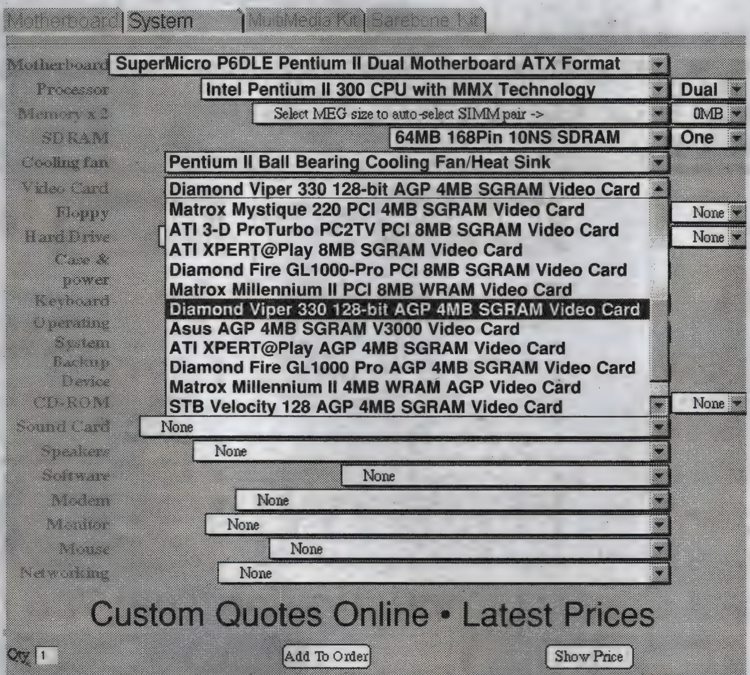

Motherboard: SuperMicro P6DLE Pentium II Dual Motherboard ATX Format
Processor: Intel Pentium II 300 CPU with MMX Technology — Dual
Memory x 2: Select MEG size to auto-select SIMM pair -> — 0MB
SDRAM: 64MB 168Pin 10NS SDRAM — One
Cooling fan: Pentium II Ball Bearing Cooling Fan/Heat Sink
Video Card: Diamond Viper 330 128-bit AGP 4MB SGRAM Video Card
- Matrox Mystique 220 PCI 4MB SGRAM Video Card
- ATI 3-D ProTurbo PC2TV PCI 8MB SGRAM Video Card
- ATI XPERT@Play 8MB SGRAM Video Card
- Diamond Fire GL1000-Pro PCI 8MB SGRAM Video Card
- Matrox Millennium II PCI 8MB WRAM Video Card
- Diamond Viper 330 128-bit AGP 4MB SGRAM Video Card
- Asus AGP 4MB SGRAM V3000 Video Card
- ATI XPERT@Play AGP 4MB SGRAM Video Card
- Diamond Fire GL1000 Pro AGP 4MB SGRAM Video Card
- Matrox Millennium II 4MB WRAM AGP Video Card
- STB Velocity 128 AGP 4MB SGRAM Video Card

Floppy: None
Hard Drive: None
CD-ROM: None
Sound Card: None
Speakers: None
Software: None
Modem: None
Monitor: None
Mouse: None
Networking: None

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Prima-3000 intel

- 512k Pipeline Burst Cache
- 32MB EDO Ram, 1.44mb Floppy Drive
- **2.5gb Western Digital Hard Drive**
- 33.6 Voice Fax Modem w/software
- **24x Toshiba CD-Rom, Microphone**
- PCI 32-bit Ensoniq Wave Table Sound
- 100 Watt 3-D Amplified Speakers
- **4mb EDO Diamond Stealth 3-D 2000 Pro**
- 15" Monitor .28dpi. 1280 x 1024 rez.
- ATX MidTower Case w/250 watt p.s.
- PS2 105 Keyboard, Mouse
- MS Windows 95, CD Bundle
- 3 Yr. Parts/Lifetime Labor Warranty

166w/MMX tech.....	**$1035**	**$38/mo.**
200w/MMX tech.....	**$1055**	**$39/mo.**
233w/MMX tech.....	**$1119**	**$42/mo.**
AMD K6 233....	**$1079**	**$40/mo.**

Prima-3200 intel

- 512k Pipeline Burst Cache
- 32MB SDRAM 10ns, 1.44mb Floppy Drive
- **4.3gb Western Digital Ultra DMA 33mb/sec**
- 56k Voice Fax Modem w/software
- **32x Toshiba CD-Rom, Microphone**
- PCI 32-bit Ensoniq Wave Table Sound
- 240 Watt Sub Woofer System, CD Bundle
- **AGP 4mb SGRAM 3-D Video Card**
- 15" Monitor .28dpi. 1280 x 1024 rez.
- ATX MidTower Case w/250 watt p.s.
- PS2 105 Keyboard, Mouse
- MS Windows 95, Lotus Smart Suite 97
- 3 Yr. Parts/Lifetime Labor Warranty

166w/MMX tech.....	**$1185**	**$44/mo.**
200w/MMX tech.....	**$1205**	**$45/mo.**
233w/MMX tech.....	**$1269**	**$47/mo.**
AMD K6 233....	**$1235**	**$46/mo.**

Prima-3600 intel

- Intel Pentium II 440 LX Chipset
- 32MB SDRAM 10ns, 1.44mb Floppy Drive
- **4.3gb Western Digital Ultra DMA 33mb/sec**
- 56k Voice Fax Modem w/software
- **32x Toshiba CD-Rom, Microphone**
- PCI 32-bit Ensoniq Wave Table Sound
- 180 Watt 3-D Amplified Speakers
- **AGP 4mb SGRAM 3-D Video Card**
- 15" Monitor .28dpi. 1280 x 1024 rez.
- ATX MidTower Case w/250 watt p.s.
- PS2 105 Keyboard, Mouse
- MS Windows 95, CD Bundle
- 3 Yr. Parts/Lifetime Labor Warranty

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Pentium®II 266........	**$1449**	**$51/mo.**
Pentium®II 300........	**$1595**	**$59/mo.**
Pentium®II 333........	**$1789**	**$66/mo.**

Prima-3800 intel

- Intel Pentium II 440 LX Chipset
- 64mb SDRAM Ram 10ns, 1.44mb Floppy
- **6.4gb Western Digital Ultra DMA 33mb/sec**
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- 3 Yr. Parts/Lifetime Labor Warranty

Pentium®II 233........	**$1805**	**$67/mo.**
Pentium®II 266........	**$1905**	**$71/mo.**
Pentium®II 300........	**$2049**	**$76/mo.**
Pentium®II 333........	**$2235**	**$83/mo.**

Prima-3100 intel

- 512k Pipeline Burst Cache
- 32MB SDRAM, 1.44mb Floppy Drive
- **3.2gb Western Digital Ultra DMA 33mb/sec**
- 56k Voice Fax Modem w/software
- **24x Toshiba CD-Rom, Microphone**
- PCI 32-bit Ensoniq Wave Table Sound
- 100 Watt 3-D Amplified Speakers
- **4mb EDO Diamond Stealth 3-D 2000 Pro**
- 17" Monitor .27dpi. Cyber Vision
- ATX MidTower Case w/250 watt p.s.
- PS2 105 Keyboard, Mouse
- MS Windows 95, CD Bundle
- 3 Yr. Parts/Lifetime Labor Warranty

166w/MMX tech.....	**$1259**	**$47/mo.**
200w/MMX tech.....	**$1279**	**$48/mo.**
233w/MMX tech.....	**$1339**	**$50/mo.**
AMD K6 233....	**$1299**	**$48/mo.**

Prima-3300 intel

- 64MB SDRAM 10ns, 1.44mb Floppy Drive
- **6.4gb Western Digital Ultra DMA 33mb/sec**
- 56k Voice Fax Modem w/software
- 32x Toshiba CD-Rom, Microphone
- **Creative Labs® AWE64 Value Sound Card**
- 240 Watt Sub Woofer System, CD Bundle
- **AGP 4mb STB Velocity 128 Video Card**
- 17" Monitor .27dpi. Cyber Vision
- ATX MidTower Case w/250 watt p.s.
- **PS2 Microsoft Ergonomic Elite Keyboard**
- **PS2 Microsoft Intelli Mouse with Wheel**
- MS Windows 95, Lotus Smart Suite 97
- 3 Yr. Parts/Lifetime Labor Warranty

166w/MMX tech.....	**$1649**	**$61/mo.**
200w/MMX tech.....	**$1669**	**$62/mo.**
233w/MMX tech.....	**$1735**	**$65/mo.**
AMD K6 233....	**$1699**	**$63/mo.**

Prima-3700 intel

- 64MB SDRAM 10ns, 1.44mb Floppy Drive
- **4.3gb IBM 8ms Ultra-Wide SCSI Hard Drive**
- 56k Voice Fax Modem w/software
- 32x SCSI Toshiba CD-Rom, Microphone
- **Creative Labs® AWE64 Value Sound Card**
- 180 Watt 3-D Amplified Speakers
- **AGP 4mb STB Velocity 128 Video Card**
- 17" Monitor .27dpi. Cyber Vision
- ATX FullTower Case w/250W p.s. & 3 fans
- PS2 105 Keyboard, Mouse
- **Microsoft Windows NT Workstation 4.0**
- Lotus Smart Suite 97, CD Bundle
- 3 Yr. Parts/Lifetime Labor Warranty

Pentium®II 233........	**$1975**	**$73/mo.**
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Pentium®II 300........	**$2219**	**$82/mo.**
Pentium®II 333........	**$2399**	**$89/mo.**

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- 64mb SDRAM Ram, 1.44mb Floppy Drive
- **8.4gb Maxtor Ultra DMA 33mb/sec**
- 56k Voice Fax Modem w/software
- 32x Toshiba CD-Rom, Microphone
- **Creative Labs® AWE64 Value Sound Card**
- 240 Watt Sub Woofer System, CD Bundle
- **AGP 8mb Diamond Fire GL-1000 Pro**
- 17" Monitor .27dpi. Cyber Vision
- ATX FullTower Case w/250W p.s. & 3 fans
- **PS2 Microsoft Ergonomic Elite Keyboard**
- **PS2 Microsoft Intelli Mouse with Wheel**
- MS Windows 95, Lotus Smart Suite 97
- 3 Yr. Parts/Lifetime Labor Warranty

Pentium®II 233........	**$2049**	**$76/mo.**
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Pentium®II 300........	**$2289**	**$85/mo.**
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SUPER● P5MMS98 P5MMA98 $115

Intel 430TX Chipset, 4 PCI & 3 ISA slots, 4/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 256mb, PnP Flash Bios, 2 USB Ports, 512k Pipeline Cache

	intel.	AMD	Cyrix
166MMX	$225	$235	N/A
200MMX	$249	$249	$195
233MMX	$325	$275	N/A

SUPER● P6SLA $139

Intel 440 LX Chipset, 4 PCI & 3 ISA, 1 AGP slot, 3/168 Pin DIMM Slots, ECC/EDO Ram Support up to 512 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
Single	$439	$539	$699	$859

Available P6SLS w/Ultra Wide SCSI.........$249

SUPER● P6DLE $255

Intel 440 LX Chipset, 4 PCI & 3 ISA, 1 AGP slot, 4/168 Pin DIMM Slots, ECC/EDO Ram Support up to 1024 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
Single	$555	$655	$815	$975
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Available P6DLS Dual w/Ultra Wide SCSI ..$349

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VIA Apollo VP3 Chipset, 512k Pipeline Cache, **1 AGP, 4 PCI & 3 ISA slots,** 4/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 512mb, PnP Flash Bios

	intel.	AMD	Cyrix
166MMX	$199	$209	N/A
200MMX	$225	$225	$169
233MMX	$299	$249	N/A

Upgrade to 1mb Pipeline Cache............$10

FYI 82440LX $119

Intel 440 LX Chipset, 4 PCI & 3 ISA, 1 AGP slot, 3/168 Pin DIMM Slots, ECC/EDO Ram Support up to 512 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
Single	$419	$519	$679	$839

ABIT TX5 AX5 $99

Intel 430TX Chipset, 4 PCI & 4 ISA slots, 4/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 256mb, PnP Flash Bios, 512k Pipeline Cache, AT format or ATX format, Jumperless

	intel.	AMD	Cyrix
166MMX	$209	$219	N/A
200MMX	$235	$235	$179
233MMX	$309	$259	N/A

ABIT LX6 $145

Intel 440 LX Chipset, 4 PCI & 3 ISA, 1 AGP slot, 4/168 Pin DIMM Slots, ECC/EDO Ram Support up to 512 mb, 2 USB Ports, PnP Flash Bios, ATX format Jumperless

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
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ASUS TXP4 TXP4-X $109

Intel 430TX Chipset, 4 PCI & 3 ISA slots, 4/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 256mb, PnP Flash Bios, 2 USB Ports, 512k Pipeline Cache

	intel.	AMD	Cyrix
166MMX	$219	$229	N/A
200MMX	$245	$245	$189
233MMX	$319	$269	N/A

ASUS TX97-E TX97-XE $135

Intel 430TX Chipset, 4 PCI & 3 ISA slots, 4/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 256mb, PnP Flash Bios, 2 USB Ports, 512k Pipeline Cache

	intel.	AMD	Cyrix
166MMX	$245	$255	N/A
200MMX	$269	$269	$215
233MMX	$345	$295	N/A

ASUS P2L97 $159

Intel 440 LX Chipset, 5 PCI & 2 ISA, 1 AGP slot, 3/168 Pin DIMM Slots, ECC/EDO Ram Support up to 512 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
Single	$459	$559	$719	$879

Available P2I97-D Dual motherboard.......$339

ASUS P2L97-S $249

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intel.	P II-233	P II-266	P II-300	P II-333
Single	$549	$649	$809	$969

P2L97-DS Dual w/Ultra Wide SCSI..........$419

TYAN COMPUTER 1571S/1573S $109

Intel 430TX Chipset, 5 PCI & 4 ISA slots, 6/72 Pin SIMM Slots, 2/168 SDRAM, EDO Ram up to 256mb, PnP Flash Bios, 2 USB Ports, 512k Pipeline Cache

	intel.	AMD	Cyrix
166MMX	$219	$229	N/A
200MMX	$245	$245	$189
233MMX	$219	$269	N/A

Tomcat IV 1564S Single/Dual.....$145/$185

TYAN COMPUTER 1592S $125

Via Apollo VP3 Chipset, **1 AGP, 4 PCI & 3 ISA slots,** 4/72 Pin SIMM Slots, 3/168 SDRAM, EDO Ram up to 1024mb, PnP Flash Bios, 512k Pipeline Cache

	intel.	AMD	Cyrix
166MMX	$235	$245	N/A
200MMX	$259	$259	$205
233MMX	$335	$285	N/A

TYAN COMPUTER 1692S $165

Intel 440 LX Chipset, 5 PCI & 2ISA, 1 AGP slot, 4/168 Pin DIMM Slots, ECC/EDO Ram Support up to 1024 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
Single	$465	$565	$725	$885

Available Dual Thunder 1696DLUA..........$459

TYAN COMPUTER 1692DL $269

Intel 440 LX Chipset, 5 PCI & 2 ISA, 1 AGP slot, 4/168 Pin DIMM Slots, ECC/EDO Ram Support up to 1024 mb, 2 USB Ports, PnP Flash Bios, ATX format

pentium® II PROCESSOR

intel.	P II-233	P II-266	P II-300	P II-333
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Pentium 233 w/MMX technology	**$209**
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AMD

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AMD K6-266 w/MMX technology	CALL
AMD K6-233 w/MMX technology	**$159**
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PCI All-In-Wonder Pro 8mb PC2TV	**$275**
AGP Xpert@Play 4mb/8mb SGRam	**$159/$205**
AGP All-In-Wonder Pro 4mb PC2TV	**$239**
AGP All-In-Wonder Pro 8mb PC2TV	**$285**

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4mb	1x36	60ns		$19
8mb	2x32	60ns		$17
8mb	**2x32**	**60ns**	**EDO**	**$18**
8mb	2x36	60ns		$29
16mb	4x32	60ns		$29
16mb	**4x32**	**60ns**	**EDO**	**$28**
16mb	4x36	60ns		$39
32mb	8x32	60ns		$59
32mb	**8x32**	**60ns**	**EDO**	**$54**
32mb	8x36	60ns		$72
64mb	16x32	60ns		$169
64mb	**16x32**	**60ns**	**EDO**	**$168**
64mb	16x36	60ns		$195

168 Pin SDRAM

16mb	SDRAM	10ns	$35
32mb	**SDRAM**	**10ns**	**$58**
64mb	**SDRAM**	**10ns**	**$132**
128mb	SDRAM	10ns	$305

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56k V.34 Int/Ext w/Voice Mail	$59/CALL

U.S. Robotics

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- 1.44mb Floppy Drive
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Via Apollo VP3 Chipset,
32mb EDO Ram, 512k Pipeline Cache,
AGP 4mb 3-D Video Card

Pentium........$315

Pentium II Motherboard
Intel i440LX AGP Chipset,
AGP 4mb 3-D Video Card
32mb SDRAM 10ns

Pentium II...$349

Pentium II Motherboard
Intel i440LX AGP Chipset,
STB Velocity 128 AGP 4mb Video Card
64mb SDRAM 10ns

Pentium II...$475

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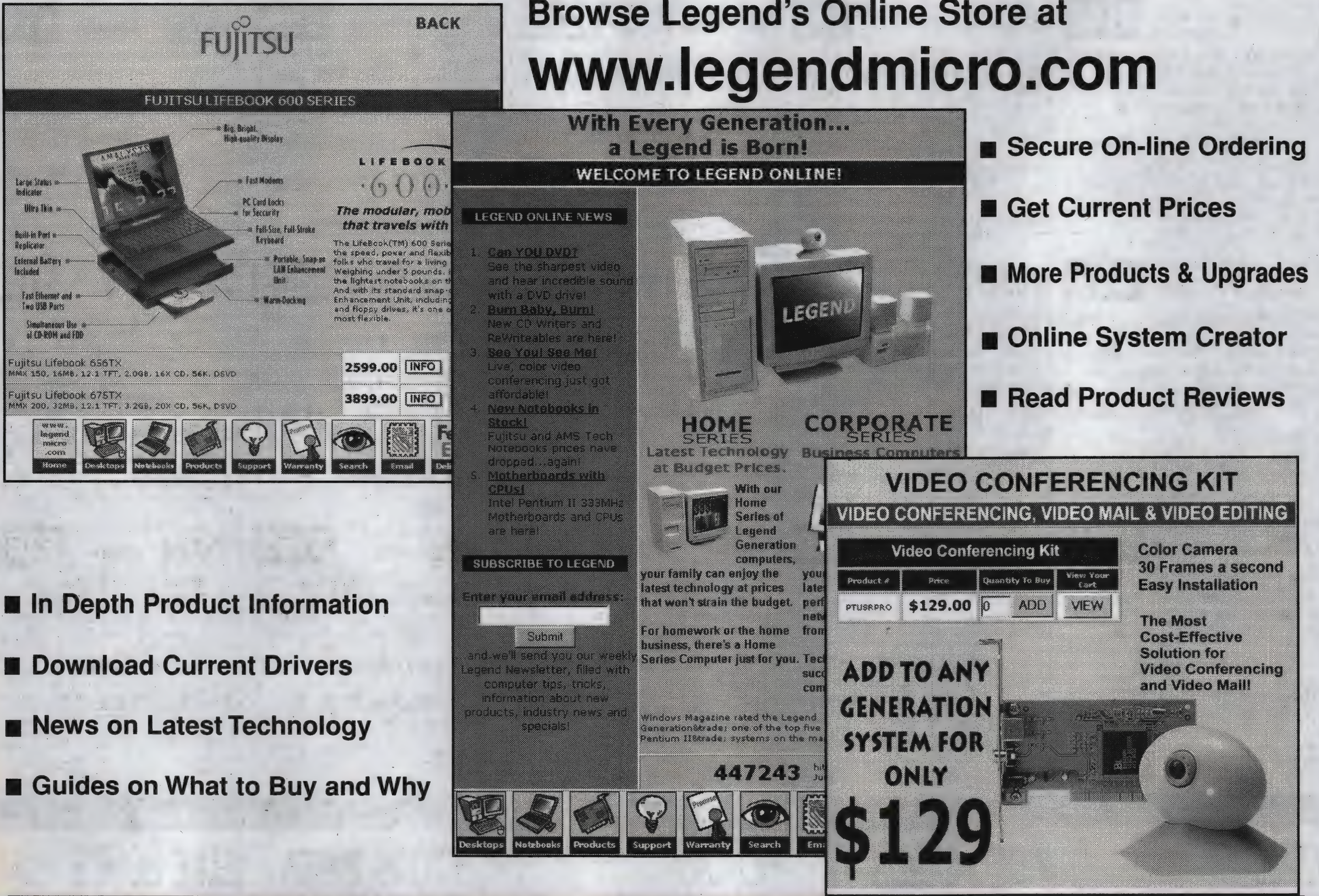

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GENERATION LGM-0905 Intel Pentium MMX 200MHz **$ 899** *Business Lease $35 month*	GENERATION LGM-0205 Intel Pentium MMX 200MHz **$ 999** *Business Lease $39 month*	GENERATION LGM-1105 Intel Pentium MMX 233MHz **$ 1299** *Business Lease $50 month*
32MB SDRAM Memory	32MB SDRAM Memory	32MB SDRAM Memory
2.1GB Quantum Ultra ATA Hard Drive	3.2GB Ultra ATA Hard Drive	4.0GB Quantum Ultra ATA Hard Drive
14" .28 CyberVision Monitor (13.2" Viewable)	15" .28 CyberVision Monitor (13.8" Viewable)	17" .27 CyberVision Monitor (16.0" Viewable)
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32X Toshiba CD-ROM, 3.5" 1.44MB Floppy	32X Toshiba CD-ROM, 3.5" 1.44MB Floppy	32X Toshiba CD-ROM, 3.5" 1.44MB Floppy
3D Stereo Audio Card and Microphone	3D Stereo Audio Card and Microphone	3D Stereo Audio Card and Microphone
56K Fax/Modem with Voice	56K Fax/Modem with Voice	56K Fax/Modem with Voice
Microsoft Windows 95 & Internet Explorer 4.0	Microsoft Windows 95 & Internet Explorer 4.0	Microsoft Windows 95 & Internet Explorer 4.0
Tower Style Case	Tower Style Case	Tower Style Case
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intel inside pentium PROCESSOR

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Microsoft Home Essentials	**89**
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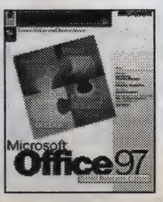
Microsoft Office 97 Small Business Edition	**189**



Microsoft Office 97 Small Business Edition **$ 189**

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"Legend Micro has combined every high-powered feature you'll need and cooked up a winning system." COMPUTER SHOPPER - January 1998

Windows Magazine rated the Legend Generation LGP-6 as one of the top five Intel Pentium II Systems on the market today. WINDOWS MAGAZINE - January 1998

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GENERATION LGM-0405 Intel Pentium II MMX 233MHz $1299

Business Lease $50 month

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- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy
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- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 w/ Money 98
- ATX Tower Style, 56K Fax/Modem with Voice
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- **1 Year ON-SITE Service with**
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Intel Pentium II MMX 266MHz 1399

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- 32MB SDRAM Memory
- 6.0GB Quantum Ultra ATA Hard Drive
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- 4MB AGP Matrox Productiva G100 Video Card
- Intel 440 LX AGPSet, 512KB L2 CPU Cache
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy
- Ensoniq Audio PCI Wave Table Sound Card
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 with Money 98
- ATX Tower Style, 56K Fax/Modem with Voice
- Altec Lansing ACS45 Subwoofer & Speakers
- PS2 Style Mouse & 104 Keyboard
- **1 Year ON-SITE Service with**
- **3 Year Parts Warranty,**
- **Free Lifetime Labor**

Intel Pentium II MMX 300MHz 1779

GENERATION LGM-0805 Intel Pentium II MMX 300MHz $1899

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- 64MB SDRAM Memory
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- 8MB AGP Matrox Productiva G100 Video Card
- Intel 440 LX AGPSet, 512KB L2 CPU Cache
- 32X Toshiba CD-ROM, 3.5" 1.44MB Floppy
- Ensoniq Audio PCI Wave Table Sound
- Microsoft Windows 95 & Internet Explorer 4.0
- Microsoft Home Essentials 98 with Money 98
- ATX Tower Style, 56K Fax/Modem with Voice
- Altec Lansing ACS45 Subwoofer & Speakers
- PS2 Style Mouse & 104 Keyboard
- **1 Year ON-SITE Service with**
- **3 Year Parts Warranty,**
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Intel Pentium II MMX 333MHz 1999

GENERATION LGM-0555 Intel Pentium II MMX 300MHz $2099

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DVD

- 64MB SDRAM Memory
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- Intel 440 LX AGPSet, 512KB L2 CPU Cache
- DVD/CD ROM Drive, 56K Fax/Modem w/ Voice
- Ensoniq Audio PCI Wave Table Sound Card
- Microsoft Windows 95 & Internet Explorer 4.0
- Simply 3D and MGI Video Wave Publisher
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- 3.5" 1.44MB Floppy Drive
- **1 Year ON-SITE Service with**
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Intel Pentium II MMX 333MHz 2799

GENERATION LGM-0705 Intel Celeron MMX 266MHz $1199

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GENERATION LGM-1205 Intel Pentium II MMX 400MHz $2499

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- Intel 440 LX AGPSet, 512KB L2 CPU Cache
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- Ensoniq Audio PCI Wave Table Sound Card
- Microsoft Windows 95 & Internet Explorer 4.0
- ATX Tower Style, 56K Fax/Modem with Voice
- Altec Lansing ACS45 Subwoofer and Speakers
- PS2 Style Mouse & 104 Keyboard
- **1 Year ON-SITE Service with**
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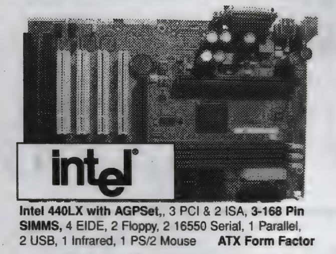
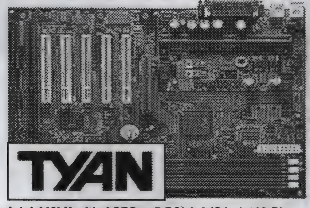


Intel 440LX with AGPSet,, 3 PCI & 2 ISA, **3-168 Pin SIMMS,** 4 EIDE, 2 Floppy, 2 16550 Serial, 1 Parallel, 2 USB, 1 Infrared, 1 PS/2 Mouse **ATX Form Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	375 / 435
Pentium II-300mhz	575
Pentium II-333mhz	**695**

S1692S TYAN TIGER $155

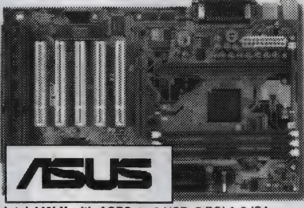


Intel 440LX with AGPSet, 5 PCI & 2 ISA, **4-168 Pin SIMMS,** 4 EIDE, 2 Floppy, 2 16550 Serial, 1 Parallel, 2 USB, 1 Infrared, 1 PS/2 Mouse **ATX Form Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	375 / 425
Pentium II-300mhz	575
Pentium II-333mhz	**695**

P2L97 ASUS $165

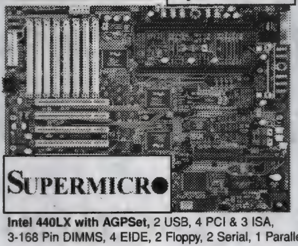


Intel 440LX with AGPSet, 2 USB, 5 PCI & 2 ISA, 3-168 Pin DIMMS, 4 EIDE, 2 16550 Serial, 1 Parallel, PS/2 Mouse, PS/2 Keyboard **ATX Form Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	375 / 435
Pentium II-300mhz	575
Pentium II-333mhz	**695**

P6SLA SUPERMICRO $145

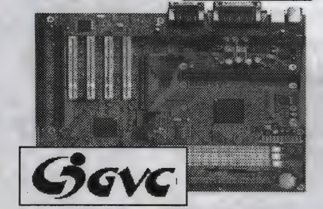


Intel 440LX with AGPSet, 2 USB, 4 PCI & 3 ISA, 3-168 Pin DIMMS, 4 EIDE, 2 Floppy, 2 Serial, 1 Parallel, PS/2 Mouse, PS/2 Keyboard,1 Infrared **ATX Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	365 / 425
Pentium II-300mhz	555
Pentium II-333mhz	**695**

KR632 GVC $119

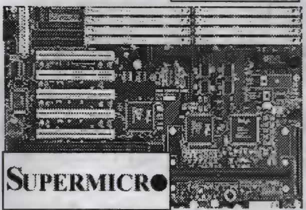


Intel 440LX with AGPSet, 2 USB, 5 PCI & 2 ISA, 3-168 DIMMS, 4 EIDE, 2 Floppy, 2 UART 16550 Serial, 1 Parallel, PS/2 Mouse **ATX Form Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	345 / 395
Pentium II-300mhz	545
Pentium II-333mhz	**655**

P6DLE DUAL SUPERMICRO $229

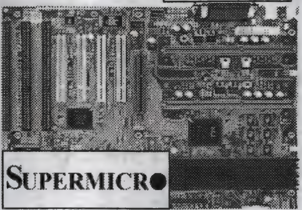


Intel 440LX with AGPSet, Dual Processor, 2 USB, 4 PCI & 3 ISA, 4-168 Pin DIMMS, 4 EIDE, 2 16550, PS/2 Mouse, PS/2 Kboard,1 Infrared **ATX Form Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	455 / 495
Pentium II-300mhz	645
Pentium II-333mhz	**775**

P6DLS DUAL ULTRA SCSI $325

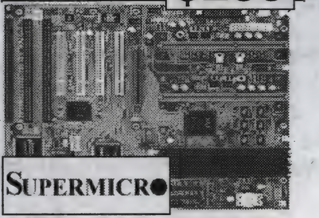


Intel 440LX with AGPSet, Dual Processor, Adaptec 2940UW SCSI Controller, 2 USB, 4 PCI & 3 ISA, 4-168 Pin DIMMS, PS/2 Mouse/ Kboard **ATX Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	555 / 595
Pentium II-300mhz	745
Pentium II-333mhz	**865**

P6SLS ULTRA SCSI $235



Intel 440LX with AGPSet, Adaptec 2940UW SCSI Controller, 2 USB, 4 PCI & 3 ISA, 4-168 Pin DIMMS, 4 EIDE, PS/2 Mouse/ Keyboard, 1 Infrared **ATX Factor**

with Intel Pentium II Installed

Pentium II-233 / 266mhz	455 / 515
Pentium II-300mhz	655
Pentium II-333mhz	**775**

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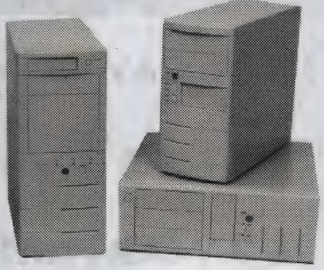


ENLIGHT DELUXE CASES

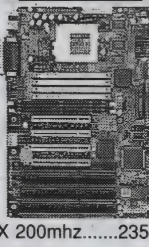
Desktop, 7 Bay, 230W	49
Mini Tower, 5 Bay, 230W	45
Mid Tower, 9 Bay, 230W	59
Mid Tower, 9 Bay, 250W UL	69
ATX Mid Tower, 230W	79

DIAMOND DIGITAL CASES

ATX Full Tower Case	89
Mini Tower, 5 Bay, Digital, 230W	29
Mini-Mid Deluxe, 7 Bay, Digital, 230W	33
DeskTop Baby AT, 5 Bays, Digital, 230W	33
Mid Tower, 7 Bays, Digital, 230W	45
Full Tower, 10 Bays, Digital, 250W	59
Super Tower Case, 10 Bays, 300W	139

PENTIUM CLASS MOTHERBOARDS

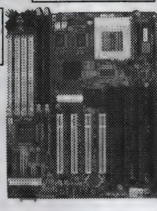
P5MMA 98 ATX SUPERMICRO $119



Intel 430TX PCI Chipset
512K Burst Cache
4-72 SIMMS
(256MB Max, EDO, FP)
2-168 DIMMS
4 PCI & 3 ISA Slots
4 EIDE, 2 16550,
1 Parallel, 2 USB Ports
ATX Form Factor

Intel Pentium MMX 200mhz	235
Intel Pentium MMX 233mhz	279
AMD K6-200mhz	229
AMD K6-233mhz	289
Cyrix MX-166mhz	199

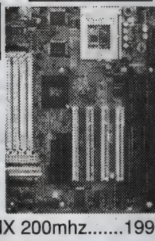
P5MMS 98 AT SUPERMICRO $115



Intel 430TX PCI Chipset
512K Burst Cache
4-72 SIMMS
(128MB Max, EDO, FP)
2-168 DIMMS
4 PCI & 4 ISA Slots
4 EIDE, 2 UART 16550,
1 Parallel, 2 USB Ports
AT Form Factor

Intel Pentium MMX 200mhz	225
Intel Pentium MMX 233mhz	268
AMD K6-200mhz	225
AMD K6-233mhz	279
Cyrix MX-166mhz	189

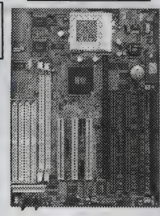
SP97-V ASUS $89



SiS 5598 PCI Chipset
Built-in video, up to 4MB
512K Burst Cache
4-72 Pin Simms
4 PCI & 3 ISA Slots
4 EIDE, 2 Floppy
2 16550 Serial
1 Parallel Port
ATX Form Factor

Intel Pentium MMX 200mhz	199
Intel Pentium MMX 233mhz	245
AMD K6-200mhz	189
AMD K6-233mhz	245
Cyrix MX-166mhz	165

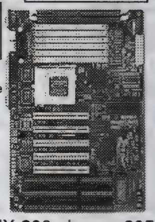
SQ578 SiS GVC-BCM $85



SiS with 75Mhz Bus
512K Burst Cache
4-72 SIMMS
2-168 DIMMS
3 PCI & 4 ISA Slots
4 EIDE, 2 Floppy,
2 16550 1 Parallel,
2 USB Ports
AT Form Factor

Intel Pentium MMX 200mhz	189
Intel Pentium MMX 233mhz	229
AMD K6-200mhz	185
AMD K6-233mhz	239
Cyrix MX-166 / 200mhz	155 / 159

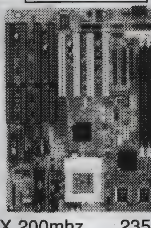
S1571 AT or S1573 ATX $99



Intel 430TX PCI Chipset
512K Pipeline Burst Cache
6-72 SIMMS
2-168 DIMMS
EDO Support
5 PCI & 3 ISA Slots
4 EIDE, 2 Floppy,
2 USB, 2 16550 Serial
AT or ATX Form Factor

Intel Pentium MMX 200mhz	205
Intel Pentium MMX 233mhz	255
AMD K6-200mhz	199
AMD K6-233mhz	255
Cyrix MX-166mhz	175

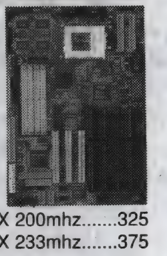
TX97 / TX97-E ASUS $125



Intel 430TX PCI Chipset
512K Pipeline Burst Cache
3-168 Pin DIMMS
4 PCI & 4 ISA Slots
4 EIDE, 2 Floppy
2 16550 Serial
1 Parallel Port
AT or ATX Form Factor

Intel Pentium MMX 200mhz	235
Intel Pentium MMX 233mhz	279
AMD K6-200mhz	225
AMD K6-233mhz	285
Cyrix MX-166mhz	205

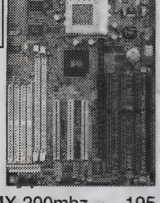
P55XUW ADAPTEC SCSI $215



Intel 430TX PCI Chipset
512K Burst Cache
4-72 & 3-168 Pin
3 PCI & 5 ISA Slots
2 16550 Serial
Adaptec 2940U Ultra / Wide SCSI Controller
ATX Form Factor

Intel Pentium MMX 200mhz	325
Intel Pentium MMX 233mhz	375
AMD K6-200mhz	325
AMD K6-233mhz	375
Cyrix MX-166 / 200mhz	295 / 295

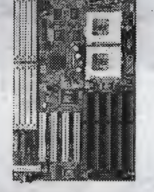
SQ575 TX AT GVC-BCM $85



Intel 430TX PCI Chipset
512K Burst Cache
4-72 SIMMS
2-168 DIMMS
4 PCI & 3 ISA Slots
4 EIDE, 2 Floppy
2 16550 Serial
1 Parallel Port
AT Form Factor

Intel Pentium MMX 200mhz	195
Intel Pentium MMX 233mhz	235
AMD K6-200mhz	185
AMD K6-233mhz	245
Cyrix MX-166mhz	165

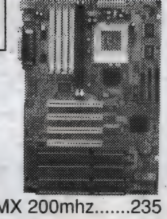
S1564D TYAN TOMCAT $169



Intel 430HX PCI Chipset
Dual Processor
512K Burst Cache
8-72 SIMMS
4 PCI & 5 ISA Slots
4 EIDE, 2 Floppy,
2 16550, 1 Parallel
AT Form Factor

Intel Pentium MMX 200mhz	285
Intel Pentium MMX 233mhz	325
AMD K6-200mhz	285
AMD K6-233mhz	335
Cyrix MX-166mhz	255

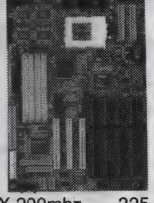
TX97-X / TX97-XE ASUS $125



Intel 430TX PCI Chipset
512K Burst Cache
4-72 Pin SIMMS
2-168 DIMM
4 PCI & 4 ISA (XE)
3 PCI & 3 ISA (E),
4 EIDE, 2 16550
1 Parallel
AT or ATX Form Factor

Intel Pentium MMX 200mhz	235
Intel Pentium MMX 233mhz	279
AMD K6-200mhz	225
AMD K6-233mhz	285
Cyrix MX-166mhz	205

P55XUWB ADAPTEC SCSI $215



Intel 430TX PCI Chipset
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3-168 Pin DIMMS
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2 16550 Serial
Adaptec 2940U Ultra / Wide SCSI Controller
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Intel Pentium MMX 200mhz	325
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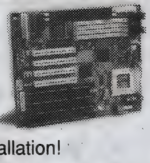
AMD K6-200mhz	325
AMD K6-233mhz	375
Cyrix MX-166 / 200mhz	295 / 295

MEGA COMBOS



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Intel 440LX AGPset Motherboard
with 512K Cache on CPU
32 MB SDRAM

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Intel 430TX Chipset Motherboard
with 512K Pipeline Burst Cache
32 MB SDRAM

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Intel 430TX Chipset Motherboard
with 512K Pipeline Burst Cache
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Intel 430TX Chipset Motherboard
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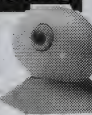

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Xpert@Play 4MB SGRAM TV Out AGP....159
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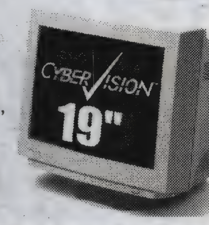

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- 1.44 Mb Floppy Drive
- 100MB IOMEGA ZIP Drive
- S3 64Bit 3D PCI Sound Card
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- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

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Pentium® II 300MHz	$2090
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- Biostar Motherboard, 440LX Chipset
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- 56Kflex Data/Fax/Voice Modem
- 32x CD-ROM Drive
- 100MB IOMEGA ZIP Drive
- 1.44 Mb Floppy Drive
- 17" 1280x1024 SVGA Monitor
- 104 Key Win-95 Ergonomic Keyboard
- Stereo Speakers, Mouse
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

Pentium® II 233MHz	$1429
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- 64Bit PCI Sound Card
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- 56Kflex Data/Fax/Voice Modem
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- 3.5" 1.44 Mb Floppy Drive
- 15" 1280x1024 .28 SVGA Monitor
- 104 Key Keyboard, Mouse
- Stereo Speakers
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

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Pentium® II 333MHz	$1499

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- 32x CD-ROM DRIVE
- 3.5" 1.44 Mb Floppy Drive
- S3 64Bit 3D PCI Sound Card
- 17" 1280x1024 SVGA Monitor
- 104 Key Win-95 Ergonomic Keyboard
- Joystick, Speakers, 3 button Mouse
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

P-200 with MMX™	$1190
P-233 with MMX™	$1244
Cx 6x86MX 200+	$1130
AMD K6-200/233MHz	$1185/1220
AMD K6-266MHz	Call

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- Trident 3D, 4Mb AGP w/TV output
- 56Kflex Data/Fax/Voice Modem
- 32x CD-ROM DRIVE
- 1.44 Mb Floppy Drive
- S3 64Bit 3D PCI Sound Card
- 15" 1280x1024 SVGA Monitor
- 104 Key Win-95 Keyboard
- Joystick, Speakers, 3 button Mouse
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

AMD K6-200MHz	$975
P-166 with MMX™ 166MHz	$959
Cx 6x86MX 200+	$919
Cx 6x86MX 233+/266+	$965/Call
P-200/233 with MMX™	$979/1039
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- 56Kflex Data/Fax/Voice Modem
- 32x CD-ROM DRIVE
- 3.5" 1.44 Mb Floppy Drive
- 64Bit PCI Stereo Sound Card
- 15" 1280x1024 SVGA Monitor
- 104 Key Win-95 Keyboard
- Joystick, Speakers, 3 button Mouse
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

AMD K6-200MHz	$859
Cx 6x86MX 200+	$799
Cx 6x86MX 233+/266+	$849/Call
P-166/200 with MMX™	$845/869
P-233 with MMX™	$918
AMD K6 233/266MHz	$899/Call

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- 64 Bit Video Card, 2MB DRAM
- 33.6K Data/Fax/Voice Modem
- 24x CD-ROM DRIVE
- 1.44 Mb Floppy Drive
- 3D PnP Stereo Sound Card
- 14" 1024x768 SVGA Monitor
- 104 Key Win-95 Keyboard
- Joystick, Speakers, 3 button Mouse
- Microsoft Windows-95 on CD
- 3 Year Parts, Lifetime Labor Warranty

Processor Installed:

Cx 6x86MX 200+	$669
Cx 6x86MX 233+/266+	$699/Call
AMD K6-200MHz	$719
AMD K6-233/266MHz	$749/Call
P-166/200 with MMX™	$695/722
P-233 with MMX™	$769

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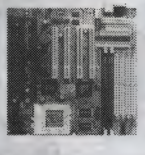

Cx 6x86MX 200+	$139
Cx 6x86MX 233+	$179
AMD K6 200	$189
AMD K6 233	$225
P-200/233 MMX™	$189/239
AMD K6-266	CALL

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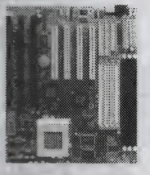
$75



Cx 6x86MX 200+	$149
Cx 6x86MX 233/266+	$189
AMD K6 200	$195
AMD K6 233	$229
P-166/200MMX™	$169/199
P-233 with MMX™	$242
AMD K6-266	CALL

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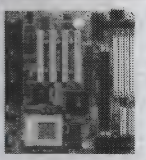
SIS 5591Chipset, 4 PCI, 2 ISA Slots, 1 AGP Slot, 512K Cache, 4-72,2-168pin Slots, Award Bios 2-USB Ports, Built-in ultra IDE, I/O Controller.

$79 GIGABYTE



Cx 6x86MX 200+	$159
Cx 6x86MX 233+	$195
AMD K6 200/233	$207/232
AMD K6 266	Call
P-200 with MMX™	$199
P-233 with MMX™	$249

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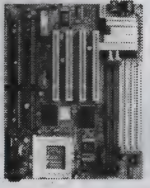
$77 BIOSTAR



AMD K6 200	$205
AMD K6 233	$239
AMD K6 266	Call
Cx 6x86MX166/200+	$155/177
P-166/200 MMX™	$179/198
P-233 with MMX™	$245

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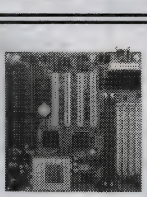
$75



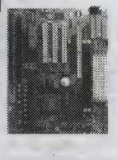
AMD K6 200/233	$200/235
AMD K6 266	Call
Cx 6x86MX 200+	$149
P-200 with MMX™	$198
P-233 with MMX™	$249

ATX Version Available

ALTON P-II LX AT

Intel 440LX chipset, 3-PCI, 2-ISA 1-AGP Slots, AT Form Factor, 3-168 pin Slots, 2USB Ports, Award BIOS, Built-in Ultra IDE, 3D Sound card, I/O Controller, 2USB Ports

$89



Pentium® II 233MHz	$355
Pentium® II 266MHz	$429
Pentium® II 300MHz	$525
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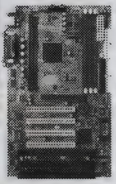

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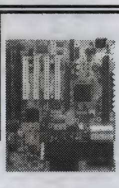

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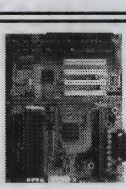

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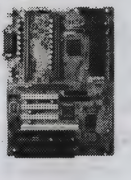

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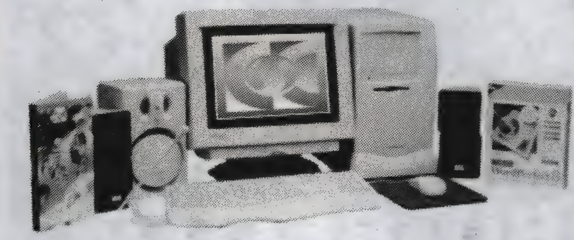

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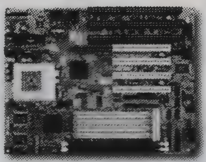

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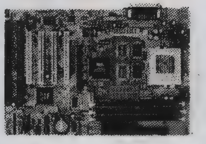
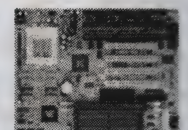
Intel 430 TX chipset w/512K,
4-72 pin/2-168 pin memory,
4-PCI/3-ISA, IR & USB ready
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	132
w/Intel Pentium 166MMX	245
w/Intel Pentium 233MMX	345
w/AMD K6 PR233MMX	**295**



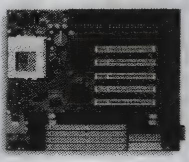
FIC PA-2012 ATX - AGP
VIA Apollo VP3 chipset w/1mb,
1 AGP Slot /3-168 pin memory,
4-PCI/2-ISA, IR & USB ready
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	115
w/Intel Pentium 166MMX	215
w/Intel Pentium 233MMX	**325**
w/AMD K6 PR233MMX	275



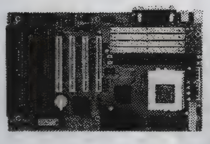
FIC PA-2007
VIA Apollo VP2 chipset w/1mb,
4-72 pin/4-168 pin memory,
4-PCI/3-ISA, IR & USB ready
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	109
w/Intel Pentium 166MMX	219
w/Intel Pentium 233MMX	**322**
w/AMD K6 PR233MMX	265



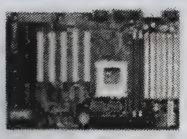
MICROSTAR MS-5156
Intel 430 TX chipset w/512K,
4-72 pin/2-168 pin memory,
5-PCI/3-ISA, IR & USB ready
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	92
w/Intel Pentium 166MMX	189
w/Intel Pentium 233MMX	285
w/AMD K6 PR233MMX	**249**



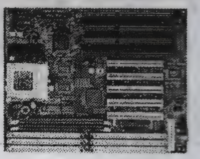
MICROSTAR MS-5148 ATX
Intel 430 TX chipset w/512K,
4-72 pin/2-168 pin memory,
5-PCI/4-ISA/2 USB Ports
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	99
w/Intel Pentium 166MMX	**195**
w/Intel Pentium 233MMX	305
w/AMD K6 PR233MMX	265



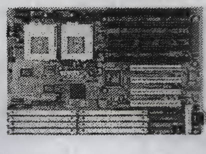
TYAN TURBO S1573 - ATX
Intel 430 TX chipset w/512K,
6-72 pin/2-168 pin memory,
5-PCI/3- ISA/2 USB Ports
4 EIDE/2 Floppy/ 1 Parallel,
PCI Busmaster Ultra DMA/ATA

Without CPU	115
w/Intel Pentium 166MMX	225
w/Intel Pentium 200MMX	**249**
w/Intel Pentium 233MMX	323



TYAN TURBO S1571
Intel 430 TX chipset w/512K,
6-72 pin/2-168 pin memory,
5-PCI/4- ISA, IR & USB ready
4 EIDE/2 Floppy/ 1 Parallel,
PCI Busmaster Ultra DMA/ATA

Without CPU	112
w/Intel Pentium 166MMX	**209**
w/Intel Pentium 200MMX	232
w/Intel Pentium 233MMX	297



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w/Intel Pentium 166MMX	299
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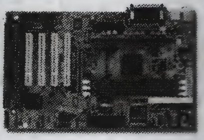

ASUS P2L97-S Dual also avail.
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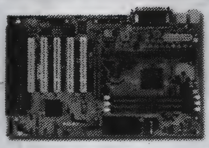
1 AGP/4-PCI/2-ISA, 2 USB ports
4 EIDE/2 Floppy/ 1 Parallel
Adaptec UltraSCSI Controller

Without CPU	245
w/Intel Pentium II 233	535
w/Intel Pentium II 266	615
w/Intel Pentium II 300	**739**
w/Intel Pentium II 333	1025



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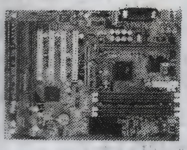
Intel 440 LX chipset w/512K,
AGP, 3-168 pin DIMM Sockets,
1 AGP/5-PCI/2-ISA, 2 USB ports
4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	169
w/Intel Pentium II 233	459
w/Intel Pentium II 266	539
w/Intel Pentium II 300	659
w/Intel Pentium II 333	**935**



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4 EIDE/2 Floppy/ 1 Parallel
PCI Busmaster Ultra DMA/ATA

Without CPU	135
w/Intel Pentium II 233	415
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PR12310: HP LaserJet 6Lse 6ppm Laser Printer	$399.95
PR12301: HP LaserJet 6PSE 8ppm Laser Printer	$799.95
PR12864: HP DeskJet 722C Printer 8ppm black/4ppm color	$299.00
PR12302: HP DeskJet 672C Color InkJet Printer	$199.95
PR12977: HP LaserJet 4000se Printer (17ppm/1200dpi)	$1149.99

LEXMARK

PR13032: Lexmark Optra S 1620 16ppm Laser Printer NEW!	$999.95
PR12342: Lexmark Optra S 1650 16ppm Laser Printer	$1099.95
PR13034: Lexmark Optra S 2420 24ppm Laser Printer NEW LOW PRICE! Was ~~$1899~~	$1549.95

EPSON

PR12126: Epson Stylus Color 600 ink jet printer	$249.00
PR12127: Epson Stylus Color 800 ink jet printer	$349.00
PR12380: Epson Stylus Photo	$399.95

MONITORS

NEC

MT1544: A500 15", 13.8" viewable, 1280x1024 @ 60Hz	$289.95
MT1546: A700 17", 15.6" viewable, 1280x1024 @ 65Hz	$469.95
MT1298: E1100 21", 19.8" viewable, 1600x1200 @ 65Hz	$1089.95

PHILIPS MAGNAVOX

MON0648: 107S 17", 15.9" viewable, 1280x1024 @ 60Hz	$399.95

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MT1451: Optiquest Q53 15", 13.8" viewable, 1280x1024 @ 60Hz	$199.95
MT1405: Optiquest Q71 17", 16" viewable, 1280x1024 @ 65Hz	$389.95

SONY.

MT1724: SONY 100ES 15", 14" viewable, 1024 x 768 @ 75Hz	$329.95
MT1759: SONY 200ES 17", 16" viewable, 1024 x 768 @ 85Hz	$599.95
MON0418: SONY 300SF 20", 19" viewable,1280 x 1024 @ 75Hz	$1529.95

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GRAPHIC SYSTEMS

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SYSTEM UPGRADES

intel.

EX6573: Intel Pentium® OverDrive Processor DX2/66 to P/83	$189.95
EX8115: Intel Pentium® OverDrive Processor P/75-150 to P/180MHz w/MMx	$239.95
BN4936: 233MHz Pentium II CPU and AGP motherboard	$599.95
BN4931: 333MHz Pentium II CPU and AGP motherboard	$1299.95

MODEMS

3Com U.S. Robotics

DMD3442: US Robotics 56K* Fax/modem – internal V.90 NEW!	$159.99
DMD3441: US Robotics 56K* Fax/modem – external V.90 NEW!	$179.99
DMD3448: US Robotics 56K* Fax/modem – external for Mac V.90	$179.99
DMD3443: US Robotics 56K* Win/modem – internal V.90	$99.99
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*ITU 56K standard compatible, capable of 56Kbps downloads. Due to FCC regulations, download speeds limited to 53Kbps. Actual speeds may vary.

ZOOM

DMD3454: Zoom 56K* Fax/modem Dual Mode	$115.99*
DMD3453: Zoom 56K* Fax/modem Internal Dual Mode	$95.99*

*Price after $20 mfr. mail-in-rebate. Ask for coupon # AAA0640. Expires 4/30/98. Limit one per address. ITU 56K standard compatible, capable of 56Kbps downloads. Due to FCC regulations, download speeds limited to 53Kbps. Actual speeds may vary.

Hayes®

DMD2526: Hayes ACCURA 56K External	$114.99*
DMD2525: Hayes ACCURA 56K Internal	$94.99*
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DMD2441: Hayes ACCURA 33.6 Internal	$49.99*

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AP0043: 10/1000 LAN + 56K PC Card with laptop purchase	$309.99*
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DMD2426: 33.6 Upgradable PC Card w/Xjack	$189.99
DMD2555: Sportster 33.6 Upgradable PC Card	$169.99

*Product must appear on the same invoice as laptop. Offer valid 3/4/98 thru 5/31/98.

STORAGE

Seagate

DR7324: Seagate Medalist IDE 1.7GB Hard Drive ST31722A	$139.95
DR7251: Seagate Medalist IDE 2.1GB Hard Drive ST32122A	$149.95
DR7335: Seagate Medalist IDE 6.4GB Hard Drive ST36451A	$269.95
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DR5641: Seagate Barracuda Ultra SCSI 9.1GB Hard Drive ST19171N	$789.95

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iomega

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DRI1050: Zip SCSI External	$139.95
DR5279: Zip Insider SCSI	$149.95
RDR4840: Iomega 1.0GB Jaz Drive Internal refurbished	$199.95*
RDRI1119: Iomega 1.0GB Jaz Drive External SCSI Refurbished	$199.95*
DR4840: Iomega 1.0GB Jaz Drive Internal	$279.95
DRI1119: Iomega 1.0GB Jaz Drive External SCSI	$299.95

*Refurbished by the manufacturer to meet original factory specifications.

NETWORKING HARDWARE

ETHERNET ADAPTERS

DEC1958: Addtron PNP Combo Adapter	$17.99
BND2551: Addtron 10/100 Card	$27.99*
DEC2673: Allied Telesyn AT-2000T PNP ISA 10Base-T	$19.99
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DEC3165: 3Com Fast Etherlink XL 10/100 PCI UTP	$89.95
DEC2968: Intel Pro 10/100 PCI	$79.95
DEC2554: 3 COM EtherLink III PC Card 10Base-T	$129.95
DEC2680: 3 COM EtherLink III PC Card 10Base-T/33.6 Modem	$259.95

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DEH2136: Addtron 8 Port 10BT Hub w/RJ45 uplink	$54.95
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DEH2542: Netgear EN108TP 8 Port 10BT Hub	$69.95

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SI2511: Corel WordPerfect Suite 8 Professional Upgrade/Competitive Trade Up Win95/NT CD	$199.95
IB0574: Corel WordPerfect Suite 8 Win95/NT (CD-ROM)	$179.95
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UP3972: CorelDraw 8 Upgrade Win95/NT (CD-ROM)	$249.95
UP3942: FileMaker Pro 4.0 f/Win 95/NT/3.1Upgrade/Competitive Upgrade	$99.95
CM2760: Procomm Plus 32.V. 4. 5 F/WIN95/NT(CD)	$149.95
SI2441: Microsoft Office 97 Pro for Windows95/NT Live/Comp. Upgrade (CD-ROM)	$309.95
IB0521: Microsoft Office 97 Pro for Windows95/NT (CD-ROM)	$529.95
SI2442: Microsoft Office 97 Standard for Windows95/NT Live/Comp. Upgrade (CD-ROM)	$219.95
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IN6533: Kodak DC210 Digital Zoom Camera	$699.95

SONY.

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Mxxx Brand	Single Connector	None	EPP	48.8 x 36.5	12f/s at 120 x 120	N/A	USD $119.00
Qxxx Brand	Single Connector	None	EPP	N/A	N/A	N/A	USD $119.00
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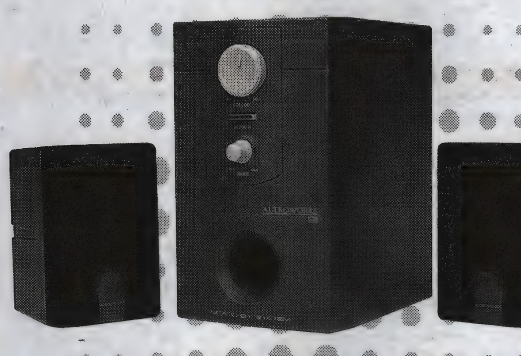

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w/ Intel Pentium II 300 CPU --- $ 890
w/ Intel Pentium II 333 CPU --- $1090

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- 32MB RAM, 1.44MB FDD, ATX Case, Mouse, Keyboard

w/ Intel Pentium II 233 CPU --- $560
w/ Intel Pentium II 266 CPU --- $650
w/ Intel Pentium II 300 CPU --- $795
w/ Intel Pentium II 333 CPU --- $995

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- DFI P2XLXE Pentium II Mainboard
- 32MB RAM, 1.44MB FDD, ATX Case, Mouse, Keyboard

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w/ Intel Pentium II 266 CPU --- $610
w/ Intel Pentium II 300 CPU --- $750
w/ Intel Pentium II 333 CPU --- $950

Pentium II Barebone System - D

- Asus TX97 Mainboard, 32MB RAM, 1.44MB FDD, Mini Case, Mouse, Keyboard

w/ Intel Pentium 233MMX CPU--- $ 430
w/ Intel Pentium 200MMX CPU--- $ 360
w/ Intel Pentium 166MMX CPU--- $ 340
w/ AMD K6 233 CPU --------- $ 390
w/ AMD K6 200 CPU --------- $ 365

Pentium II Barebone System - E

- Asus TXP4 Mainboard, 32MB RAM, 1.44MB FDD, Mini Case, Mouse, Keyboard

w/ Intel Pentium 233MMX CPU--- $ 399
w/ Intel Pentium 200MMX CPU--- $ 329
w/ Intel Pentium 166MMX CPU--- $ 309
w/ AMD K6 233 CPU --------- $ 355
w/ AMD K6 200 CPU --------- $ 330

Pentium II Barebone System - F

- DFI 586ITBDE Mainboard, 32MB, 1.44MB FDD, Mini Case, Mouse, Keyboard

w/ Intel Pentium 233MMX CPU--- $ 365
w/ Intel Pentium 200MMX CPU--- $ 295
w/ Intel Pentium 166MMX CPU--- $ 275
w/ AMD K6 233 CPU --------- $ 320
w/ AMD K6 200 CPU --------- $ 295

DIY's

D.I.Y.- A

Asus P2L97-DS Dual Pentium II Mainboard
- Dual Slot 1 for Pentium II CPUs, Support PII 233 ~ 333Mhz
- Intel 440LX AGP set, ATX Form
- 4xDIMM, Support upto 512MB
- 4xPCI, 2xISA, 1xAGP

Adaptec AIC 7880 Ultra SCSI Controller on Board - 64 MB RAM

w/Intel Pentium II 233 CPU	$ 810
w/Intel Pentium II 266 CPU	$ 900
w/Intel Pentium II 300 CPU	$1045
w/Intel Pentium II 333 CPU	$1245

D.I.Y.- B

Asus P2L97-S Pentium II Mainboard
- Single Slot 1 for Pentium II CPUs support PII 233 ~ 333Mhz
- Intel 440LX AGP set, ATX Form
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- 4xPCI, 2xISA, 1xAGP

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w/Intel Pentium II 300 CPU	$ 885
w/Intel Pentium II 333 CPU	$1085

D.I.Y.- C

Asus P2L97 Pentium II Mainboard
- Single Slot 1 for Pentium II CPUs support PII 233 ~ 333Mhz
- Intel 440LX AGP set, ATX Form
- 4xDIMM, Support upto 512MB
- 4xPCI, 2xISA, 1xAGP
- 64MB RAM

w/Intel Pentium II 233 CPU	$ 565
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w/Intel Pentium II 300 CPU	$ 800
w/Intel Pentium II 333 CPU	$1000

D.I.Y.- D

Asus TX97 Pentium Mainboard
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w/Intel Pentium 233 MMX	$ 380
w/Intel Pentium 200 MMX	$ 310
w/Intel Pentium 166 MMX	$ 290

D.I.Y.- E

Asus TX97-E Pentium Mainboard
- ZIF Socket 7 for Intel P54C/P55C, AMD K5/K6, IBM/Cyrix 6x86 CPUs
- Intel 430TX PCI set, AT Form
- 2xDIMM, 4xSIMM support upto 256MB
- 4xPCI, 3xISA - 32MB RAM

w/Intel Pentium 233 MMX	$ 380
w/Intel Pentium 200 MMX	$ 310
w/Intel Pentium 166 MMX	$ 290

D.I.Y.- F

Asus TXP4 Pentium Mainboard
- ZIF Socket 7 for Intel P54C/P55C, AMD K5/K6, IBM/Cyrix 6x86 CPUs
- Intel 430TX PCI set, AT Form
- 2xDIMM, 4xSIMM Support upto 256MB
- 4xPCI, 3xISA - 32MB RAM

w/Intel Pentium 233 MMX	$ 355
w/Intel Pentium 200 MMX	$ 285
w/Intel Pentium 166 MMX	$ 265

D.I.Y.- G

Tyan 1571S Pentium Mainboard
- ZIF Socket 7 for Intel P54C/P55C, AMD K5/K6, IBM/Cyrix 6x86 CPUs
- Intel 430TX PCI set, AT Form
- 6xSIMM, 2xDIMM Support upto 256MB
- 5xPCI, 4xISA - 32MB RAM

w/Intel Pentium 233 MMX	$ 345
w/Intel Pentium 200 MMX	$ 275
w/Intel Pentium 166 MMX	$ 255

D.I.Y.- H

Tyan Tiger 1692S Pentium II Mainboard
- Single Slot 1 for Pentium II CPUs
- Intel 440LX AGP set, ATX Form
- 4xDIMM, Support upto 1024MB
- 4xPCI, 3xISA, 1xAGP
- 64MB RAM

w/Intel Pentium II 233 CPU	$ 570
w/Intel Pentium II 266 CPU	$ 660
w/Intel Pentium II 300 CPU	$ 805
w/Intel Pentium II 333 CPU	$1005

D.I.Y.- I

Tyan Tiger 1692DS Dual Pentium II Mainboard
- Dual Slot 1 for Pentium II CPUs
- Intel 440LX AGP set, ATX Form
- 4xDIMM, Support upto 1024MB
- 4xPCI, 3xISA, 1xAGP
- 64MB RAM

w/Intel Pentium II 233 CPU	$ 675
w/Intel Pentium II 266 CPU	$ 765
w/Intel Pentium II 300 CPU	$ 910
w/Intel Pentium II 333 CPU	$1110

D.I.Y.- J

DFI 586ITBDE Pentium Mainboard
- ZIF Socket 7 for Intel P54C/P55C, AMD K5/K6, IBM/Cyrix 6x86 CPUs
- Intel 430TX PCI set
- 2xDIMM, 4xSIMM support upto 256MB
- 3xPCI, 3xISA - 32MB RAM

w/Intel Pentium 233 MMX	$ 320
w/Intel Pentium 200 MMX	$ 250
w/Intel Pentium 166 MMX	$ 230

D.I.Y.- K

DFI P2XLXE Pentium II Mainboard
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Tech

The Hard Edge

by Alice Hill
and Bill O'Brien

Deconstructing Windows 98; Good-Bye, Pentium, Hello, Intel 3D; and Introducing the Gigahertz Generation

May comes in like a...no, wait, that's March. The problem with May is that it's neither here nor there. It's not the start of something or even the end of anything. In fact, the only thing that really sets this particular May apart from any other is that we shall see if Windows 98 actually appears on time and in honest working form. Then again, that might not be what most of us want to see at all.

BREAKING WINDOWS

If you know Windows 95, you already understand some things about it: There are a whole bunch of versions floating around, and they don't work across all types of PC configurations. According to Microsoft, as more advanced features were added to the hardware we use (like USB or Ultra DMA), Windows was updated to support them. Unfortunately, these versions weren't backward-compatible with older hardware, and it's difficult to keep track of the various versions. Hence, if you try to upgrade your current version of Windows to a newer one, you're just as likely to witness really strange happenings as you are to see a successful upgrade.

Is it possible to believe that things will be different with Windows 98? Yes, but only if you're very naive. You'll probably hear reasons that make it appear as though everyone at Microsoft has your best interest in mind. There might even be some truth to some of those reasons. But we suspect that at the heart of the matter, it comes down to one simple fact: Microsoft doesn't want another technical support nightmare. Windows 98 will probably light up the lines as though it were the Batphone. Why add more fuel to an already raging fire? (And at more cost to Microsoft.) That's hardly inconsistent with the "me, me, me" attitude the company we all know and love has shown in the past.

Maybe Bill (our Bill, not the other one) lives in a dream world. Okay, for our Bill, that's not a maybe, but he thinks it would be refreshing if just once—all right, maybe twice—a company spokesperson would walk up to the podium, look the crowd in the eye, and say, "We're about to make your lives really, really difficult. But that's just because we want to make ours really, really easy, and we know you'll put up with it because you really have no choice."

THE GHz GENERATION

The approaching millennium may mean different things to different people, but to Alice and Bill, it signals the dawn of a new age. That's right, folks; mega is out, giga is in, and as usual, you heard it here first.

How else could Alice and Bill explain the strange flurry of pre-

MAY DAY: THE ARRIVAL OF WINDOWS 98?

With the great saga of Microsoft and Windows 98 comes this question from Alice and Bill: Should we believe that working with Windows 98 will be any different than the mess of working with Windows 95? Alice and Bill think not. In fact, they think Microsoft should just put out a statement saying "at Microsoft, we're about to make your lives really difficult."

Then, recent advances in battery technology may extend the life of your batteries and lead to power notebook computing. Rik Fairlie uncovers the mystique of batteries in his article, "Staying Power," and lets us know how close we are to creating the ultimate battery.

Microsoft makes the lineup again with its own strand of DNA: Distributed interNet Application Architecture. Keith Kirkpatrick reports on this new architecture and explains why Microsoft is grooming it to be the successor of its ActiveX technology.

John Dvorak spins a tale about the birth of the first workstation, Rich Dragan creates powerful Java animation with DirectX, and Al Poor answers your most troubling technical riddles. ▼

Section

announcements from IBM, Digital Equipment Corp., and Intel on 1,000MHz CPUs expected by 2000? The shift from megabytes to gigabytes in storage will be old news by then, but a CPU with a gigahertz clock speed sounds like something Bill would have written about five years ago just to sound far-fetched—precisely because it was. (*Hey, I only just finished my automated gigacounter. —Bill*)

And that's exactly what gets Alice. She goes to a lot of technical conferences and sits through a mind-numbing number of slide presentations given by engineers on why their product and design concept is the best thing going. So far, so good. They don't call it "The Hard Edge" for nothing. But what Alice learns from all those engineers—x86 engineers to be exact—is that there is a brute-force way to design a CPU and a mathematically superior way to build one. RISC chips are hard-wired, clock-busting implementations, and x86 is complex, multidimensional work at its finest. Every pathway and pipeline are optimized and meticulously designed in the x86 CPU. It isn't about just revving the clock, but about improving the engine.

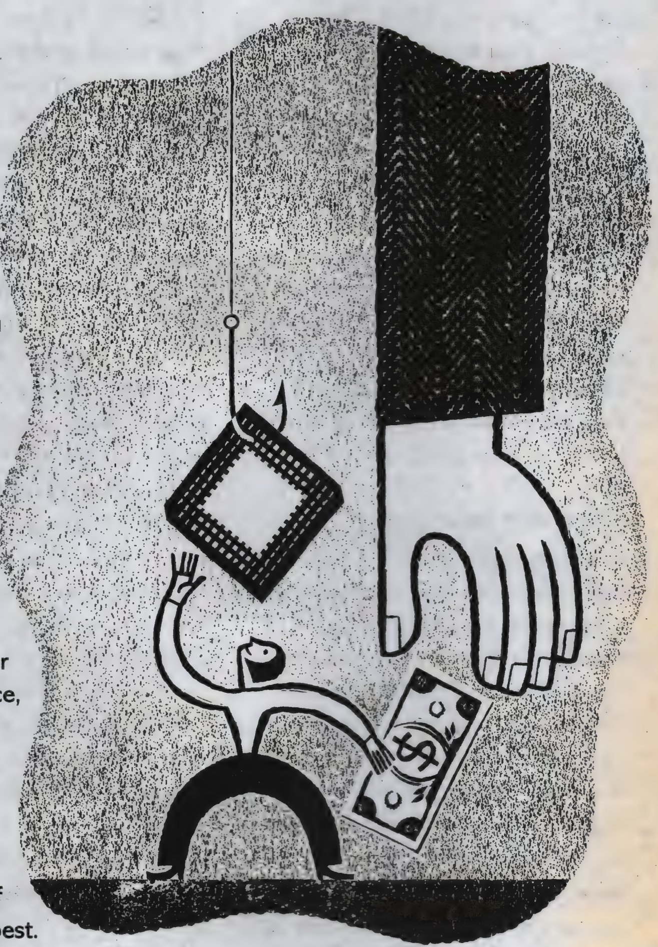
In fact, Alice can remember one very heated microprocessor-design talk where engineers actually intimated that the x86 architecture would really only go so fast, and that it made more sense to focus on a better, more efficient design than to try and run the chips at a pancake-cooking speed.

What a difference a decade makes. Or so we're led to believe. With IBM, DEC, and Intel all rushing to unveil 1,000MHz, or 1GHz, prototypes of their next CPUs, it looks like the GHz decade will be all about brute force. So Alice placed an emergency call to an engineer pal she had (at a microprocessor giant that shall remain nameless) to try to get some answers.

The situation boiled down to one key question: Why was the focus on elegance vs. brute force, and why is it swinging the other way? The answer came down to a single word: money.

When the average desktop went for $2,500 to $4,500, there was room to tinker with the CPU design. You had the leeway and the cash to make your architecture the very best it could be, even if it was only in the name of technical superiority. When you can buy a fully loaded P200 for $799, it isn't about who has the best and most complex pipeline design, but whose chip runs the fastest for the least amount of money.

There is something to be said for that. When Alice actually bought a couple of cheap P200s the other day, what caught her eye after comparing the memory and hard drive sizes was the processor speed. Why buy a cheapo 166 when you could get 200 for the same price? The same holds true for the high end. Why bother with a 666MHz chip, Bill's processor speed of choice, when you can cruise at gigahertz speeds instead?



Another engineer pal of Alice's said it best. Chip making is similar to car making. Engineers spend millions of hours and dollars tinkering with a vehicle's drivetrain—painstakingly working to minimize the amount of time the wheels are not in direct and fully functional contact with the road. A drivetrain advance can be microscopic and yet incredibly complex to bring about. In the end, it is always simpler to drop in a faster engine. (*Amen! There's no substitute for cubic inches! —Bill*)

Long before any users get their hands on the products, do yourself a favor and remember the motto of the gigahertz generation: Cheaper is better. It will be the defining concept of the next decade in computing. It will be the catalyst behind every major advancement and

ILLUSTRATION BY TIMOTHY COOK

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The Hard Edge

every major product success. That will carry with it both good and bad connotations. Alice and Bill have seen the light, and it's the rotating blue siren light of a Kmart blue-light special. Aisle four.

BILL'S OFF...

...of another forum, that is. Actually, he's been kicked out of a club of sorts. Seems he told off one of the main attractions on the mailing list. Of course, it had to do with cars. The list moderator told Bill he was abrasive. (And that was a secret?) Bill told the list moderator some stuff, too. At this rate, Bill won't need to worry about being assimilated by the Evil Internet. In fact, if he keeps it up, he won't be allowed to go anywhere near it. Alice, however, is a little worried. Seems she thought she heard Bill mumble something about joining a list of Catholic grammar school alumnae. Anybody know if there are plenary indulgences given out for abrasive behavior?

GOOD-BYE PENTIUM

So Intel is phasing out the venerable Pentium this year, and Alice felt it was worth pausing to reflect for a moment on the chip that was the first to became a product. Before the Pentium, Intel stuck a small "i" on the front of a bunch of numbers as a way of telling one microprocessor generation from the next (the i486, the i386, and so on). Since you can't really trademark numbers, there was nothing Intel could do to stop an AMD586 or a c686, and hence the name Pentium was selected (by Andy Grove himself) as a way of distancing itself from any potential competition and, in the process, neatly leaving them with just a pile of numbers.

Of course, Pentium also gave the average journalist more than numbers to write about (thanks, Andy!). There were debates on what the 686 would be called (Sexium? Snort, snort). There were the meaningless MMX extensions that in the end turned out to be the microprocessor equivalent of scrubbing bubbles. It was a heady time.

So good-bye, Pentium. As you go to join your "i"-marked brethren, we all aptly salute you by imagining the "Intel Inside" song snippet and animated swirl—beautifully trademarked and forever emblazoned on the minds of people everywhere. Ready? Begin swirl.

SATELLITE III

This one should be subtitled "The Postal Years." While the post office guarantees that it will deliver the mail in rain, snow, sleet, and the usual additional suspects, Bill's satellite from the Hughes Network and NEC is a bit more selective. It either stops working completely or becomes so intermittent that it's useless when it's snowing, raining, or just overcast. When contacted to verify that this was normal behavior, a DirecPC technical support representative commented, "Yeah."

Of course, that was after 10 minutes of being on hold while listening to the same advertising blurb over and over again. Bill wouldn't have thought that it was so bad except that the commercial kept repeating how the DirectDuo PC and TV satellite system could put the Internet at his fingertips. Who cares about the fingertips? Put it reliably at the end of the satellite dish, huh?

In all fairness to NEC, the 233MHz Direction system itself has been problem-free—even though Bill stuffed in some extra memory he had lying about on a shelf and added a second hard drive warmed over by Partition Magic.

MORE IS TOO MUCH

In an age when sandwich-bag manufacturers feel compelled to put a blue stripe on one side of a bag and a yellow one on the other so that consumers know they've closed it correctly by making green, can there really be too much product information?

Well, yes. Witness the following list of progress reports from Bill's satellite software:

Launching application
Preparing for dialing
Dialing
Please wait while modem is connecting
Connected
Please wait for logon processing

That's six messages for a process that takes roughly 17 seconds at its worst. All it really needs is a single "Logging on" notation with the ability to generate error messages if something goes wrong.

So what gives with the dialog overkill?

It's not that one particular program; it's computing in general. We are pandering more and more to that segment of the population that, even if given a dollar, couldn't buy a clue about computers. And it's a great business tactic.

We had long ago already saturated the market consisting of those who knew why they needed computers. To stay in business, everyone involved in the computer manufacturing and sales process had to find new market shares. If the top tier's gone, there's nowhere else to look but down. And as they chipped away at lower and lower market shares, those things that are involved in computing needed to become more and more obvious, more and more childlike in their simplicity, to appeal to the new crowd. The last thing a potential buyer wants to feel is ignorant about the product he or she is thinking about buying.

So to keep egos from being bruised (and wallets from being slammed shut), we now get operating systems and applications written in a whole new computer

THE HARD EDGE MAILBAG

The average "Hard Edge Mailbag" writer gets a little stranger each and every month. Could this have something to do with the warmer weather? And if the strange and disturbed are staying inside on such a fine late-spring day to write messages to Alice and Bill, one has to wonder what the average Mailbag reader is like. Scary, isn't it?

ALL ABOUT AGE OF EMPIRES

Alice and Bill,

As a fan of "The Hard Edge," I recommend you to everyone. I even follow some of your recommendations when I can afford them. That's why I was pleasantly surprised with Age of Empires—a totally engrossing waste of time for only $39! And it IS all about resources. Use your metal, paper, or plastic to go out and get this game. A trial version and game patch (no more population limit, heh-heh) can be found at *www.microsoft.com/games/empires/downloads.htm*.

But seriously, can't we all just CDSL along? I need more speed at home, but ISDN is (dead) too expensive, and I don't think the cable companies are willing to make the infrastructure upgrades. After all, just look at the set-top boxes and controllers you have to use for cable. I hope that telcos will be more likely to upgrade sooner if a CDSL standard is decided on because telcos understand the necessity of upgrading marginally better than the cablecos. Or am I grasping because I just want more bandwidth at a reasonable price? Oh, well, I can always SEND MY CAVALRY to overwhelm them!

—Allen McElwain
via the Internet

Allen, the telcos are slower that anything we've seen—who else takes 25 years to badly implement something like ISDN? The Dixie cup and string was the last viable telco product we may see at this rate.

DEPENDABLE NAMES

Alice and Bill,

In the February 1998 "Hard Edge," you said that a "hacker" used to be one who physically built or altered his computer. Nowadays, it has come to mean a kid breaking into the Pentagon's computers to see if he can launch language: baby talk. It's overexpository, simplistic, and redundant—all those good things meant to let the waffle-iron buyers feel warm and fuzzy about their new high-tech purchase.

The real shame of it all is that most of this crowd will look for the cheapest products they can find because it's a money-driven market segment. (Segment Zero, the $999 bunch.) To meet that criteria, they'll be bogged down with the lowest capability available from last-generation technology. And they'll never quite understand why their "computer" is such a big deal all over the place when it's so slow and doggy.

The truth is something that long-time "Hard Edge" readers have heard here before. But it does merit repeating. Despite all of the chic politicking that says no one should be deprived of a computer, not everyone should own one. (Ask Bill and he'll tell you that no one should. The little beasties eat away at your life.) But by making these folk think that they should, and by dangling a product under their noses that fits in their budget range, we're causing them to throw away their money. That's not a good thing.

GRAPHICS GONE MAD

While everybody was busy kicking Microsoft around the block for trying to take over the world, Intel pulled a fast one on the 3-D graphics community by introducing a new 3-D chip that wasn't half bad. According to John Carmack, designer of Quake, Quake II, and Doom: "Good throughput, good fill rate, good quality, good features. A very competent chip. I wish Intel great success with the i740. I think that it firmly establishes the baseline that other companies will be forced to come up to.

"Voodoo rendering quality, better than Voodoo 1 performance, good 3-D on a desktop integration, and all textures come from AGP memory so there is no texture swapping at all. Lack of 24-bit rendering is the only negative of any kind I can think of.

"The chip has the potential to outperform Voodoo 1 across the board, but 3Dfx has more highly tuned drivers right now, giving it a performance edge. I expect Intel will get the performance up before releasing the ICD.

"It is worth mentioning that of all the drivers we have tested, Intel's MCD was the only driver that did absolutely everything flawlessly. I hope that its ICD has a similar level of quality *[It's a MUCH bigger job.]* An 8MB i740 will be a very good setup for 3-D development work."

Alice and Bill are waiting to get their hands on an actual product before commenting, but one thing is clear: Kiss the graphics companies without a 3-D solution good-bye. And if you find Intel's presence in the market unthreatening because you have better drivers, or a better chip, be afraid; be very afraid.

More on this next month.

SEND IN THE CLONES

Your tag team of technological titans, Alice and Bill, have been remiss. Here we are, faced with one of the most remarkable technologies to ever come about, cloning, and nary a peep has been raised at "The Hard Edge" about it. The issue is rife for opinion, but before that can happen, it is important to determine what the issue really is. Well, let's start peeping.

The problem with cloning, the reason it's met with such furor, is that it has the potential to destroy civilization. We don't mean that in any abstract way. Nor is our intent to suggest that cloning would bring about a race of subservient beings (we already have that; they're called freelance writers) or preserve less-than-sterling personalities that might better be sent on to their greater reward. The real issue is God (or "god," depending on your point of view). Whether or not you believe in one, and no one says you should or shouldn't, the concept of a deity is fundamental to most cultures worldwide. We use it to justify behavior and eternal reward or punishment. We use it to justify our existence and set our place in the grand order of things. Cloning can cause real problems with that.

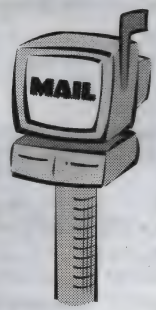
If we clone a human being, we'll need to then determine if that clone has a soul—another fundamental concept for most cultures. It's not a simple yes-or-no answer because no one has yet to define just what a soul is. We can talk around it, or about it, but no one can definitively say, "This set of parameters constitutes a soul." It would be easier if it were a CPU. It's not.

(continued on page 480)

Having a hotsy-totsy Win 95 setup that runs only DOS apps may be a bit discomfiting.

the missiles, for an experiment. I remember when "hacker" was an acceptable label. Alice and Bill, we need a new, socially acceptable term for somebody who "builds his own," as well as for the thing he creates. I call my computer a "Frankenstein," as I put it together to save money. Me, I'm just a "piddler." Perhaps, I should be called a "Frankenstein" and my computer a "Tinker Toy," as it is just a collection of pieced-together parts. But I am positive that you and Bill can come up with better words. What do you suggest for the new terms?

—J. Vega
via the Internet



Stop, you're scaring us! "Piddler" sounds loosely connected to Depend adult undergarments, and "Frankenstein" is just downright freakish. Please, put down that keyboard and get some fresh air.

HELLO, AT&T?

Dear Alice and Bill,

As an AT&T WorldNet subscriber, I heartily agree with the inquiry into line speed—except that a few months ago, I was lucky to get a 26.4Kbps speed connection. Now I average a 24Kbps connection, and tonight—for the first time since subscribing—I am on at a full-blown 28.8Kbps. Can my heart take the strain of actually getting what I paid for, for the first time in almost a year? But why do I have to update my credit card info every three months? And where is customer service when I want to ask it that?

—Robert Waldrop
via the Internet

Robert, customer service reps can be reached via two methods: online, which isn't really helpful if you can't get online, or on-phone, but since they've never been online, they don't have a clue. It's a concept.

—Bill

MAYDAY!

If you're not busy making the world a better place for humanity, the very least you can do is drop your pals Alice and Bill a line to let them know you're okay. Who loves you, baby?! Hint: E-mail is faster and better; go digital!

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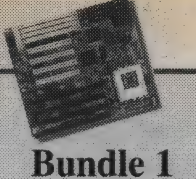

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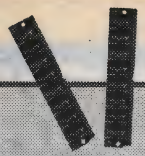

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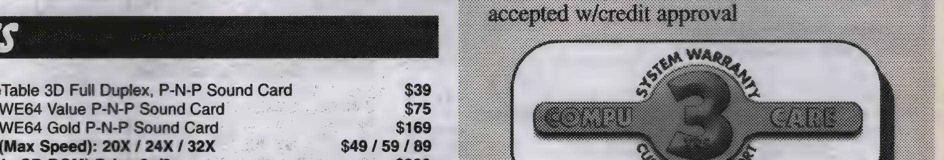

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The Hard Edge

(continued from page 477)

And what happens if we come around to thinking that it does have a soul? Man will have created a being with a soul. See the problem? That's the traditional job description of the man upstairs. We're then faced, as a civilization, with the odious task of reevaluating our concept of a god—something we've also not really spent a lot of time pinning down. And that concept is such a keystone to the pattern of our lives that trying to reposition it could easily bring the whole thing down around us.

Alice and Bill's Top 10 Computer Oxymorons

10 Advanced BASIC
9 Business software
8 Customer support
7 Computer jock
6 Natural keyboard
5 Information systems
4 Computer security
3 Plug and Play
2 Online Community
1 Microsoft Works

Understand this, we're not saying that anyone would need to do that. There are enough unused rationalizations still available that anyone with half a brain could come up with a good one. (Bill already has.) But we, as human beings, don't like questions of that nature at all. They frighten us with our mortality. And to be very blunt, religion, in most places, is also a business—in some cases financial, in others political, and at times both. It's a big boat to rock.

So now you know. The cloning controversy isn't technology vs. humanity. It's technology vs. theology—which like technology, is a component of humanity. We're back to the Scopes trial. And as our technology becomes more and more refined, we'll keep coming back to it, until we can finally resolve the differences between the two. Kind of makes the Intel-Cyrix-AMD thing pale in comparison, huh?

E-MAIL PROBLEMS?

Aside from the usual gripe (it doesn't get here fast enough), it seems as if some of you are having problems with e-mail attachments. (Bill's in the dark about that one. If he gets a message with an attachment, he tosses it out. Causes a real problem when Alice sends him her half of "The Hard Edge." If that's the case, check out DataViz's (*www.dataviz.com*) new program, e-ttachment Opener. According to the company, it will open anything short of a can of tuna fish and has decompression features as well.

ATTENTION, JANET RENO

Microsoft and the Department of Justice have reached an agreement about Internet Exploder, er, Explorer and Windows 95. With Windows 98 on the way, that's nice. So why was it that when Bill uninstalled IE 4.0 from a system recently, using Windows' uninstall procedures, his reward was a fatal exception error? This wasn't just any FEE, this was the mother of all FEEs. It even affected Safe mode. Nothing would boot except DOS.

Of course, according to Bill, that's not a bad thing. But for most people, having a hotsy-totsy Windows 95 setup and only being allowed to run DOS programs might be a little discomforting.

It's hard to say that there's any hint of vindictiveness in this arrangement, but wouldn't it seem logical—at least to anyone with functioning frontal lobes—that it's much more desirable for consumers if Microsoft incorporates the multimedia aspects of IE into Windows without incorporating IE itself? Otherwise, wouldn't it be somewhat impossible to call Windows an operating system (or "environment," if you're a purist) if it doesn't operate? Should we be expecting Internet Explorer 98?

Games (and we don't mean the kind with graphics and explosions) can be fun at times. But enough is enough already. ▼

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Intel®Pentium-II 233-266-300-333 MHz	**474 / 538 / 722 / 871**
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	**696 / 823**
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Intel®Pentium-II 233-266-300-333 MHz	**566 / 630 / 814 / 963**
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(2) Intel®Pentium-II 233-266 MHz	**788 / 915**
(2) Intel®Pentium-II 300-333 MHz	**1274 / 1573**

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SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, Adaptec 2940UW SCSI on-board controller, 1GB EDO or 512MB SDRAM —w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI /3 ISA Slots, AGP Connector, ATX size

Intel®Pentium-II 233-266-300-333 MHz	**451 / 515 / 699 / 1060**

SUPERMICRO P6SLA $138

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 768MB EDO or 384MB SDRAM w/3-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI /3-ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size

Intel®Pentium-II 233-266-300-333 MHz	**359 / 423 / 607 / 968**

TYAN TIGER-2 ATX S1692DL $264

SUPPORT Dual PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 4-168 pin DIMM (max 1GB RAM), 2 EIDE, 1 Floppy, ECP/EPP parallel port, 5 PCI /2 ISA Slots, 1 AGP slot, 2-Serial, and infared and 2 USB ports, ATX size: 9.5" x 12"

Intel®Pentium-II 233-266-300-333 MHz	**468 / 549 / 733 / 883**
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	**708 / 834**
(2) Intel®Pentium-II 300-333 MHz	**1202 / 1501**

TIGER ATX S1696DLUA $437

SUPPORT Dual PENTIUM-II 233MHz+, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 1GB EDO or 512MB SDRAM—w/4-168 pin DIMM, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 4 PCI / 2 ISA Slots, AGP Connector, 2-Serial, and infared and 2 USB ports, CPU temperature control, overheat alarm, ATX size: 12.25" x 12"

Intel®Pentium-II 233-266-300-333 MHz	**658 / 722 / 906 / 1055**
SUPPORT DUAL PENTIUM-II CPUs	
(2) Intel®Pentium-II 233-266 MHz	**880 / 1007**
(2) Intel®Pentium-II 300-333 MHz	**1375 / 1674**

TYAN TIGER ATX S1692S $149

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP), Ultra DMA 33 MB/s burst data transfer rate, 4-168 pin DIMM (max 1GB RAM), 2 EIDE, 1 Floppy, ECP/EPP parallel port, 5 PCI/2 ISA Slots, 1 AGP slot, ATX size: 9.5" x 12"

Intel®Pentium-II 233-266-300-333 MHz	**371 / 434 / 618 / 979**

GIGABYTE GA-686LX $138

SUPPORT Single PENTIUM II® processors, Intel® 440LX Chipset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, Built-in alarm for overheating, 3-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, ATX Form factor

Intel®Pentium-II 233-266-300-333 MHz	**359 / 423 / 607 / 756**

GIGABYTE GA-686BLX $134

SUPPORT Single PENTIUM II® processors, Intel® 440LX Chipset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, Built-in alarm for overheating, 2-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, AT Form Factor

Intel®Pentium-II 233-266-300-333 MHz	**356 / 419 / 603 / 964**

ASUS P2L97 $155

SUPPORT Single PENTIUM-II 233MHz +, Intel® 440LX Chipset (enabling AGP) ,Ultra DMA 33 MB/s burst data transfer rate, 3-168 pin DIMM Sockets, 5 PCI /2 ISA Slots, 1-AGP Connector, 2 EIDE, 1 Floppy, ECP/EPP parallel port, 2-Serial and 2 USB ports, CPU temperature control, overheat alarm, ATX form factor: 8.3" x 12.0"

Intel®Pentium-II 233-266-300-333 MHz	**377 / 440 / 624 / 985**

INTEL AL440LX ATLANTA $181

SUPPORT Single PENTIUM II® processors, Intel® 82440LX AGPset, 3-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Yamaha OPL3-SA3 audio built-in, Accelerated Graphics Port (AGP) controller, Advanced Power Management (APM), 2-USB ports,1-ISA, 3-PCI, 1-Shared PCI/ISA Slot, PS/2 mouse & keyboard on board, ATX form factor: 12" x 7.75"

Intel®Pentium-II 233-266-300-333 MHz	**403 / 466 / 650 / 1012**

IWILL PIILS $276

SUPPORT Single PENTIUM II® processors, Intel® 440LX AGPset, 4-168 pin DIMM sockets, Ultra DMA 33 MB/s burst data transfer rate, Accelerated Graphics Port (AGP) controller, **Adaptec Ultra/Ultra Wide SCSI**, Ultra-wide 68-pin & 1-50-pin connectors, System Hardware Monitoring & LDCM, 3-ISA, 4-PCI, 1-AGP slots, 2-16550 serial ports, 1-parallel port (ECP/EPP), PS/2 mouse & keyboard on board, ATX form factor: 12" x 7.75"

Intel®Pentium-II 233-266-300-333 MHz	**497 / 561 / 745 / 1106**

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IWILL P55XUWB™ $218

Intel® Tritin 430TX PCI Chipset, 4 PCI / 4 ISA slots, 2 USB ports, 4 EIDE Support Ultra DMA33, 3 X DIMM sockets, 512K Pipeline Burst Cache, Offers Adaptec Ultra / Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID, Baby AT size: 8.8" x 11.2"

Adaptec ARO 1130 RAID adapter	**289**
Intel®Pentium® 166-200-233 MHz MMX	**331 / 357 / 428**
AMD K6™ PR2-200-233	**348 / 393**

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Offers Adaptec Ultra SCSI on-board which is equivalent to AHA 2940AU.

IWILL P55XUW™ $218

Intel® Tritin 430TX PCI Chipset, 4 PCI / 4 ISA slots, 2 USB ports, 4 EIDE Support Ultra DMA33, 4/72 pin SIMM & 3 X DIMM sockets), 512K Pipeline Burst Cache, Offers Adaptec Ultra/Ultra Wide SCSI on-board which is equivalent to AHA 2940UW and RAIDBUS slot ready for upgrade to RAID, ATX size: 9.8" x 12.2".

Adaptec ARO 1130 RAID adapter	**289**
Intel®Pentium® 166-200-233 MHz MMX	**331 / 357 / 428**
AMD K6™ PR2-200-233	**348 / 393**

IWILL P55XB2™ $103

Intel 430TX PCIset, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, Baby AT size: 8.8" x 11.2"

Intel®Pentium® 166-200-233 MHz MMX	**216 / 242 / 313**
AMD K6™ PR2-200-233	**233 / 278**

TYAN S1592 TRINITY ATX $112

VIA Apollo VP3 PCIset, 512K Pipeline Burst Cache, 4-72pin SIMM & Three 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 ATX Serial ports, PS/2 Keyboard & Mouse, 1 ECP/EPP parallel, 2 USB ports, ATX Form Factor: 11.6" x 8"

Intel®Pentium® 166-200-233MHz MMX	**225 / 251 / 323**
AMD K6™ PR2-200-233	**233 / 278**
CYRIX 6x86MX ™ PR200-PR233	**186 / 233**

TYAN S1571 TITAN TURBO AT $103

Intel 430TX PCIset,, 512K Pipeline Burst Cache, 6-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 4 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, AT keyboard connector, 2 USB ports support rev 1.2, Baby AT, size: 11" x 8.8"

Intel®Pentium® 166-200-233 MHz MMX	**216 / 242 / 313**
AMD K6™ PR2-200-233	**233 / 278**

TYAN S1573 TITAN TURBO ATX $103

Intel 430TX PCIset, 512K Pipeline Burst Cache, 6-72pin SIMM & Two 64-bit 168-pin DIMM, 5 32-bit PCI & 3 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, 2 USB ports support, 1 PS/2 keyboard, ATX footprint, size: 13.3" x 8.7"

Intel®Pentium® 166-200-233 MHz MMX	**216 / 242 / 313**
AMD K6™ PR2-200-233	**233 / 278**

GIGABYTE GA586TX3 $101

Intel 430TX PCIset, Award Flash BIOS, 512K Pipeline Burst Cache, 2-72pin SIMM & Three 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots (One shared), 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, Size: 3/4 AT Form Factor

Intel®Pentium® 166-200-233 MHz MMX	**213 / 240 / 311**
AMD K6™ PR2-200-233	**231 / 276**

GIGABYTE GA586-SG $85

SIS 5591 PCI Chipset, 512K Pipeline Burst Cache, 4/72-Pin SIMM & 2 64-bit 168-pin DIMM, 4 32-bit PCI & 2 16-bit ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 1 32-bit AGP Slot, 2 Floppy, 2-16550 Serial ports, 1 ECP/EPP Parallel, USB Ports (optional), Baby AT Form Factor

Intel®Pentium® 166-200-233MHz MMX	**197 / 224 / 295**
AMD K6™ PR2-200-233-266	**215 / 259 / CALL**
CYRIX 6x86MX ™ PR200-233	**158 / 205**

BIOSTAR GROUP 8500TTD $77

Intel® Triton 430TX Chipset, 512K Pipeline Burst Cache, 4/72-pin SIMM & 2-168-pin DIMM sockets, 3 PCI & 4 ISA Slots, 4 EIDE Support Ultra DMA 33MB/s rate, 2 Floppy, 2-16550 Serial ports, (1) ECP/EPP Parallel, Baby AT size: 8.6" x 9.4"

Intel®Pentium® 166-200-233 MHz MMX	**189 / 216 / 287**
AMD K6™ PR2-200-233	**207 / 251**

GVC GROUP/BCM SQ-575 $80

Intel 430TX PCIset, 512K Pipeline Burst Cache, 4-72pin SIMM & Two 64-bit 168-pin DIMM, 4 32-bit PCI & 3 16-bit ISA Slots (One shared), 4 EIDE Support Ultra DMA 33MB/s transfer rate, 2 Floppy support, 2-16550 Serial ports, 1 ECP/EPP parallel, 1 PS/2 mouse port, 1 USB header, Baby AT, size 8.66" x 9.05"

Intel®Pentium® 166-200-233 MHz MMX	**193 / 219 / 290**
AMD K6™ PR2-200-233	**210 / 255**

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Staying

by Rik Fairlie

Advances in battery technology are bringing notebook users closer to safe, energy-dense, and lightweight cells.

Just about every battery manufacturer promotes its electrochemical formula as *the* prescription for maximum-power portable computing. Yet if these remedies were genuine, runtimes on today's notebooks wouldn't be shrinking as the list of multimedia features grows longer.

While the perfect battery—lightweight, safe, energy-dense, and inexpensive to manufacture—is still nonexistent, real and even revolutionary changes are in the offing. For instance, notebook users will soon see cheaper and higher-density lithium-ion batteries. And several vendors are beginning to manufacture cells based on a new lithium-polymer technology that will yield more flexible cell design, easier fabrication, and increased safety. Further into the future, lithium-metal technology promises to generate cells with still higher density—assuming that some serious concerns about safety are addressed. And early in the next century, all-polymer batteries may emerge as a pliable, easy-to-manufacture successor to the cells of the '90s.

Despite these promising new technologies, it's widely believed that manufacturers will continue to fine-tune the performance of nickel-metal hydride (NiMH) and lithium-ion chemistries, thus ensuring that these cells continue to dominate the portable-computing battery market for the next few years.

Production of both NiMH and lithium ion is on the upswing, though growth is shifting in favor of the latter. According to the Nomura Research Institute of Yokohama City, Japan, shipments of lithium-ion batteries were projected to soar to 198 million cells in 1997, up from 116 million cells the year before. This year, shipments are projected to expand to 288 million cells. NiMH, on the other hand, expanded to 607 million cells in 1997, up from 380 million units the previous year, but is expected to drop to 517 million cells in 1998.

ECONOMIES OF SCALE

This type of mass output gives battery manufacturers the economies of scale needed to guarantee profitable production. So while lithium polymer and lithium metal promise to deliver greater energy efficiency, battery manufacturers must be able to safely produce the cells in quantity at a reasonable price. And these business challenges could help keep lithium ion and NiMH at the top of the heap, at least for a while.

Whatever the chemistry and fabrication, the need for extended power has never been more critical for mobile workers with portable computers. Although engineers have achieved steady advances in battery technology in recent years, hardware vendors continue to load notebooks with power-draining features such as 14.1-inch displays, high-speed CD-ROM drives, and support for new technologies such as Universal Serial Bus. And as the power and capabilities of today's multimedia computers increase, so too have their power requirements. In fact, Intel says the power consumption of a typical multimedia computer (excluding the display) has jumped from about 15 watts to 20 watts in the past year and is expected to approach 25 watts this year. The capacity of a typical lithium-ion battery pack, meanwhile, has stalled in the 30- to 50-watt-hour range.

In practical terms, that means a 40-watt-hour battery would power a notebook that draws an average of 20 watts for a pretty disappointing two hours.

If left unchecked, the situation will only worsen. By the year 2000, the power consumption of a high-end notebook will hit 32 watts and will skyrocket to 47 watts by 2003, according to Nomura Research.

That's not to say that computer and component makers have willfully ignored the runtime requirements of users. Intel has steadily beefed up the performance of its processors while decreasing the voltage requirements by 50 percent over the past few years. For instance, the chip maker has trimmed voltage requirements of its mobile processors from 3.3 volts to as low as 2.2 volts for its new 120MHz MMX Pentium processor.

LCD manufacturers, too, are making tremendous strides in trimming the power consumption of displays. Sharp Electronics, one of the largest suppliers of notebook screens, says that the power requirements for its TFT LCDs have declined markedly even as their size has increased. For instance, in 1991, a 10.4-inch LCD drew 18 watts, but in 1996, the same display size consumed only 2 watts of power, says Masaya Hijikigawa, Sharp's corporate general director of LCD development. He adds that in 1996, a 12.1-inch LCD consumed 4 watts, but this year the same display size will consume only 2.5 watts.

BATTERY BASICS

Before exploring the future of electrochemical technology, it's important to understand a few basics about batteries. First, batteries consist of four essential parts: a positively charged cathode, a negatively charged anode, a separator to keep these electrodes from coming into contact with each other, and an electrolyte that acts as an electrical conductor, allowing ions to flow between the cathode and the anode. The electrolyte can be made of liquid solutions of acids, bases, or

Power

salts. Alternately, promising new technology has yielded solid electrolytes concocted of polymers, iodides, and gels.

The measure of how well chemical engineers pack the most punch into a cell is called energy density. There are two ways to describe a battery's energy density: Gravimetric energy measures the amount of energy per unit of weight in watt hours per kilogram (Wh/kg), and volumetric density refers to the amount of energy per unit of volume, expressed in watt hours per liter (Wh/l).

Until very recently, volumetric density was not usually employed to measure the energy capabilities of portable computers because vendors and users alike were focused on weight. In the past year, however, OEMs have become increasingly concerned about volume as computer vendors roll out slim notebooks and handheld computers whose svelte form factors leave little leeway for bulky batteries.

Finally, cycle life refers to a battery's total useful life, expressed as the number of times a battery can be charged and discharged.

LI-ION KING

Lithium-ion batteries have been in commercial production since 1993, but because of the comparatively glacial pace of advances in battery technology, many in the industry still consider lithium ion to be an emerging technology. And there's no question that it's a rapidly growing sector of the battery market.

The typical lithium-ion battery has an anode with lithium ion interleaved within carbon layers; its cathode is, in most cases, a cobalt oxide that is intercalated with lithium ion. Its electrolyte is typically a liquid mixture of predominantly organic carbonates containing dissolved lithium salts. Because lithium is a volatile metal, lithium-ion batteries require electronic monitoring to ensure safety, adding to the complexity and cost of the battery. Lithium ion becomes hazardous if the battery cell becomes pressurized when exposed to elevated temperatures. It vents to prevent explosion and emits a flammable solvent; a fire may result if that solvent then comes into contact with a hot processor.

Although lithium ion is not the cutting edge of battery technology, manufacturers continue to make advances in lithium-ion chemistry that promise to enhance its efficiency. For instance, researchers are tinkering with the construction of the cell by building the anode and cathode from new materials and modifying the electrolytes as a means to increase capacity and safety. Battery engineers are continually improving the cell designs so that they pack more energy into the container itself.

Manufacturers also are working with new higher-capacity carbonic anodes and metal-oxide cathodes, and are wrapping the results in lightweight packages such as aluminum and plastics, which makes for a lighter battery.

ILLUSTRATION BY DAVID FLAHERTY

THE PROMISE OF LITHIUM POLYMER

Perhaps the most touted emerging technology is lithium polymer. And with good reason: lithium-polymer batteries can be exceedingly thin—5mm or thinner—and assume various shapes. Moreover, they can deliver greater volumetric efficiency because they can be assembled as stacked prismatic packages rather than cylindrical cells packed into a flat container.

The key difference between lithium-polymer cells and traditional lithium-ion cells is that the polymer cells employ a solid polymer electrolyte, which is considered safer than a liquid electrolyte and therefore requires less electronic monitoring within the battery. Lithium-polymer batteries, when commercially available, will hold greater gravimetric energy than lithium-ion batteries but will deliver only half the number of cycles.

The first company to produce rechargeable lithium-polymer batteries is Ultralife Batteries. This Newark, N.Y.-based company is supplying the batteries for Hewlett-Packard's upcoming ultrathin OmniBook computer and for a similar model marketed in Japan by Mitsubishi, which measures an astonishingly lean 18mm thick.

While traditional lithium-ion prismatic cells are housed in steel or hard metal, Ultralife's cells are contained in a laminated foil casing, making the battery somewhat flexible in very thin cells, says Julius Cirin, Ultralife's director of marketing. "They can be engineered to fit in oddly shaped devices, enabling designers to make more efficient use of space," he says.

The company's version of lithium-polymer batteries, which it calls the Ultralife Solid State System, will be in full production by the first quarter of 1998. Cirin says the 3.7-volt cells will deliver an energy density of 125 Wh/kg and 250 Wh/l, with a cycle life of approximately 500 charges. The battery pack will provide approximately 20 watt hours of power, which is enough to keep the ultraslim notebooks running for approximately 1.8 hours, according to Cirin.

Another proponent of lithium-

A Comparison of Battery Basics

Battery Chemistry	Specific Energy (Wh/kg)	Energy Density (Wh/l)	Operating Voltage	Cycle Life	Cost per Wh
NiCD	50	125	1.2 volts	500	$0.75
NiMH	75	170	1.2 volts	500	$1.04
Li-Ion	100	300	3.7 volts	600+	$1.20
Li-Polymer (Ultralife)	125	250	3.7 volts	500	$1-$2 (est.)
Li-Polymer (Moltech)	215	260	2.1 volts	200	$1.20 (est.)
Li-Metal	140	300	3 volts	300	$1.20 (est.)
Zinc-Air	150	220	1.05 volts		$1.50
All-Polymer	30	45	3 volts	1,000	NA

Notes: NiCD = nickel cadmium; NiMH = nickel-metal hydride; Li = lithium; Wh = watt hour; Wh/kg = watt hours per kilogram; Wh/l = watt hours per liter

These figures are based on interviews with battery vendors.

polymer technology says it has devised a thin battery that will deliver twice the energy density of lithium-ion cells by linking together three or more sulfurs in the cathode. Moltech, based in Tucson, Ariz., has concocted a lithium-sulfur polymer cell that incorporates several sulfur rings in the cathode and a lithium-metal anode, says John Broadhead, Moltech's vice president of technology. He says an upcoming version of the company's Organo Sulfur Polymer battery will link three to four sulfurs together in a chain in the cathode, which will dramatically increase energy density.

These new units will deliver a whopping 200 Wh/kg and 265 Wh/l in 2-volt AA cells. One downside is that the battery currently achieves only 200 cycles, though Broadhead says the company is working toward increasing cycle life to 300 charges.

In midyear, Moltech will begin manufacturing of its lithium-polymer batteries, the first of which will be produced in AA cylindrical cells for cellular phones and handheld computers. The company plans to ramp up pilot line production of notebook batteries by the third quarter.

Among budding battery technologies, many believe that lithium polymer holds the most promise. The cost to manufacture lithium polymer is yet to be determined, however. "In theory the manufacturing process of lithium polymer lends itself to simplicities that would provide economies of scale because the electrolyte is polymer, which in theory can be produced in large sheets," says George Braun, director of technical marketing for Energizer Power Systems in Gainesville, Fla. "But we still don't know what it will cost to do that."

THE LITHIUM-METAL DEBATE

The most polemical of incipient battery technologies is lithium metal, which was first commercialized in the 1980s, but was abandoned due to a reputation for poor operating and charging safety. Today lithium metal has been resurrected by several companies that claim to have solved its safety problems.

Lithium-metal cells employ a lithium-metal anode in place of lithium polymer. Their chief advantage is a significantly higher energy density—some manufacturers of the cells claim that their products offer as much as 60 percent more power than lithium-ion cells at approximately the same cost—though cycle life is comparatively low.

Tadiran Electronic Industries in Port Washington, N.Y., has developed a 3-volt lithium-metal battery that delivers 140 Wh/kg and 300 Wh/l, says Sol Jacobs, general manager. Cycle life maxes out at 300 charges, however, and lithium-metal cells recharge slowly, requiring up to eight hours to achieve a full charge. Jacobs dismisses these shortcomings by countering that cumulative operating life is a more important comparative yardstick. Lithium-metal batteries, he says, are superior to lithium ion because they have greater capacity and therefore do not require recharging as often. "You get more hours per cycle with lithium metal," he says. The most serious concern with lithium metal, however, is perceptions about safety.

Unless charging is very precisely controlled, hard deposits known as dendrites can form on the electrodes, creating the possibility of a short circuit or fire if the dendrite pierces the separator material. Jacobs says Tadiran has corrected this problem by causing the battery to polymerize when it becomes overheated.

Tadiran's AA lithium-metal batteries are currently being used in cell phones and a wireless portable modem, he says.

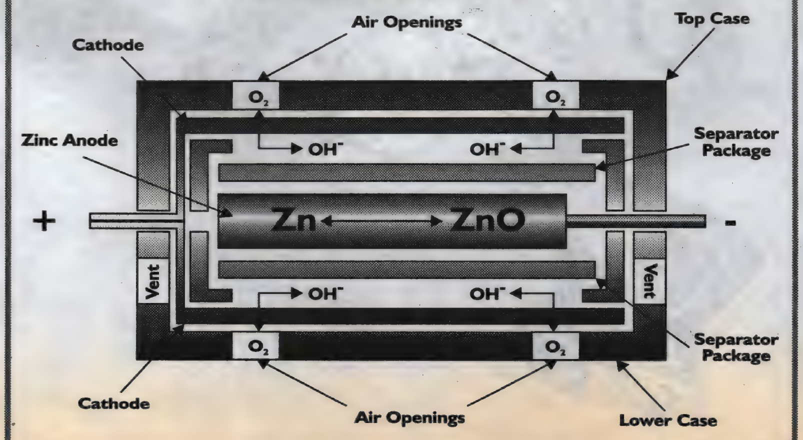
PLASTIC FUTURE

The newest type of rechargeable-battery technology employs an all-polymer design in place of conventional electrode materials. Although they're still lab prototypes, these plastic units are the first practical battery in which both electrodes *and* the electrolyte are constructed of polymers.

Many people are intrigued by the flexibility of all-polymer cells, which are manufactured in thin sheets, according to Dr. Ted O. Poehler, the vice provost for research at Johns Hopkins University in Baltimore, Md., who has led the charge to create the all-polymer battery. "You can fashion it in different shapes, and it can be used as a part of structures," he says.

Other advantages, according to Poehler, include light weight, a low volumetric ratio, and a cycle life that

Dual Air Electrode Design Doubles Cell Power Capacity



stretches to more than 1,000 charges. The downside? With a specific energy of only 30 Wh/kg, they offer nowhere near the capacity to power today's portable devices.

The 3-volt cells consist of an anode and a cathode that are constructed of thin, foil-lined plastic sheets with an electrolyte that is a polymer gel film. Because the polymer batteries contain no liquid electrolytes, they pose no possibility of safety hazards due to leaking.

Poehler says his team has implemented new electrode materials that are more efficient than those used in the initial model, yielding technology that has the potential to achieve roughly 60 Wh/kg. The researchers continue to boost the specific energy of all polymer cells, and Poehler says that Johns Hopkins has initiated serious discussions with business partners to manufacture the batteries for commercial use. He says that all-polymer batteries should be relatively inexpensive to produce, but it will be at least three years before all-polymer batteries become commercially available.

Initially, Poehler says, the all-polymer battery would be appropriate for small electronic devices such as cell phones; ongoing improvements in efficiency could eventually make them suitable for power-hungry notebooks.

THE BREATHING BATTERY

If all-polymer batteries are on the short side when it comes to runtime, then zinc-air technology is on the long side. This technology, which is being championed by AER Energy Resources of Smyrna, Ga., comes in the form of an add-on high-density battery for notebooks that will deliver runtimes of 10 hours or more. Although it's hefty at 3.2 pounds, AER's Model 12015 zinc-air battery delivers 3.1 hours per pound of runtime, a 35 percent improvement over the 2.3 hours per pound for a typical lithium-ion battery.

The zinc-air battery attaches to the bottom of the notebook and provides power by "respiring," giving off oxygen during charging and absorbing it during discharge. It harnesses oxygen from the air outside the battery case to produce a chemical reaction with the zinc during discharge.

AER recently enhanced the technology by eliminating mercury as a manufacturing additive, says Frank Harris, vice president of marketing.

AER, which has been marketing zinc-air batteries since 1995, says the Model 12015 delivers 150 Wh/kg and 220 Wh/l. Putting 10 cells into a 0.6-inch-thick pack yields a 180-hour battery. Like lithium metal, zinc-air batteries have a relatively low cycle life. Harris says that AER's battery provides only 30 cycles but delivers 250 hours of usage. Besides, Harris points out that zinc air originally was not rechargeable, and that AER is constantly improving the recharging process by developing metals that make the air electrode bifunctional.

AER also is beginning to develop batteries for handheld PCs, which will require significantly more juice with upcoming color LCDs and faster modems. "We think the handheld Windows CE unit is where our technology will end up," he says. "We're planning on building a thin, internal prismatic battery for these devices."

In the end, Harris believes that handheld computers could even replace notebooks because they could deliver the runtime that has become the Holy Grail of battery technology: a full day's work on a single charge. "It appears that the notebook as we know it is going to be pretty much a one-hour runtime desktop-replacement transportable device, and handhelds will become the portable that you take on the road," he says. "If you have a handheld computer that gives you the basic functions, what more do you need?" ▼

SECTION CONTINUES ON PAGE 492

Intel Leads the Charge

The road to better battery performance for portable computers won't be paved solely with electrochemical advances. Accordingly, Intel Corp. is leading the charge to optimize the power consumption of notebooks.

Intel and a number of leading notebook vendors are spearheading an effort called the Mobile Power Initiative (MPI), which aims to wring the most power efficiency out of system hardware, system software, and application software. On the system hardware side, Intel is working with notebook and component manufacturers to establish efficient power targets. The chip maker has set a good example by consistently lowering the voltage requirements for its mobile CPUs, says Jason Ziller, Intel's mobile platform marketing manager.

As for system software, the focus is on implementing the Advanced Configuration and Power Interface (ACPI), a standard that will intelligently off-load many advanced power-management tasks to the operating system. Under this OS-directed power-management model, the hardware communicates directly to the operating system rather than the battery-management software. This, Ziller says, is more efficient because the OS is cognizant of most everything that is occurring system-wide. "You can make applications ACPI-aware, which will make the OS aware of the power needs and thereby make for very effective management and distribution of power," he says. ACPI, which is being developed in conjunction with Microsoft and Toshiba, will be built into the upcoming Windows NT 5.0 and Windows 98. ACPI-compliant systems should hit the streets by April, Ziller says.

Intel is also working with software vendors to create apps that use power more efficiently. "We've found out that there are some simple techniques that they can do that can improve battery life by as much as 50 percent," he says. The chip maker has created a tool called the Intel Power Monitor to help developers of office suites optimize code for improved power efficiency. ▼

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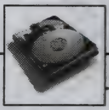

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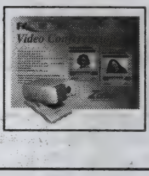

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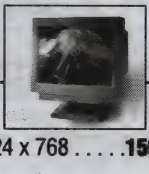

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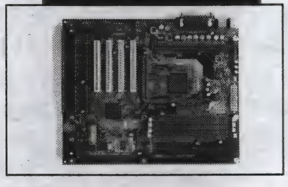

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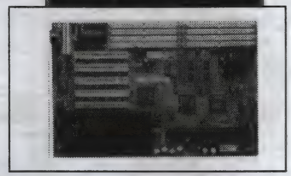

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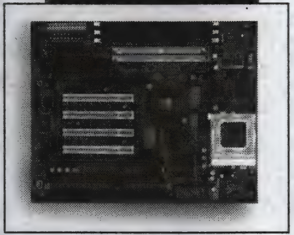

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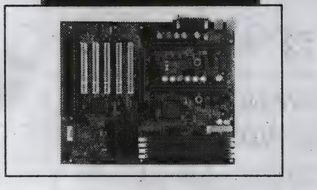

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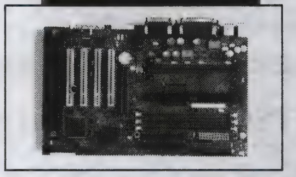

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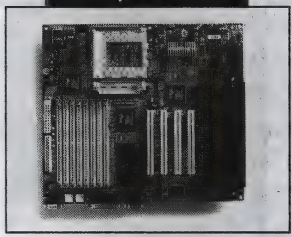

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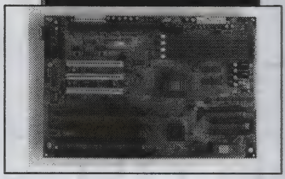

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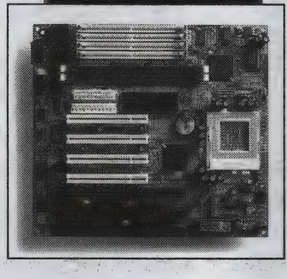

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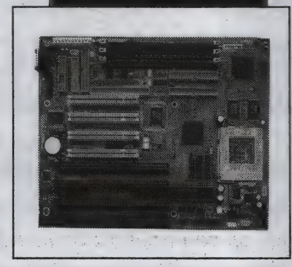

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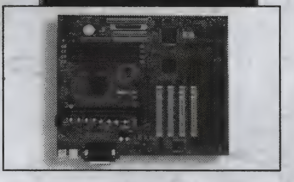

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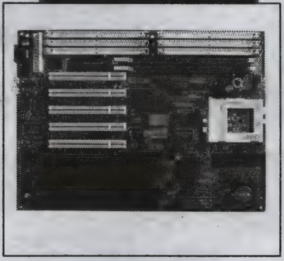

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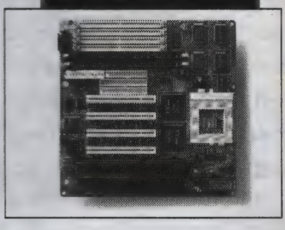

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Microsoft's Own Strand of DNA

by Keith Kirkpatrick

Microsoft's Windows Distributed interNet Application Architecture may be the successor to its ActiveX technology as the development environment of choice.

Deoxyribonucleic acid—better known by its acronym DNA—is universally recognized as the building block for all living things. Now Microsoft Corp., in an effort to inject some life into its Internet and client/server software strategy, has unveiled its own Windows DNA, or Windows Distributed interNet Applications Architecture, for application development.

According to an October 1997 Gartner Group research report, Windows DNA has become the newest marketing umbrella for Microsoft's overarching Internet strategy, replacing ActiveX as the road map for application developers. What's more, the research firm predicted that Microsoft's Component Object Model (COM) technology will be the underlying foundation upon which Microsoft will build through at least 2002.

Like Netscape Communications Corp.'s Networked Enterprise, Oracle Corp.'s Network Computing Architecture, and IBM Corp.'s Network Computing Framework, Windows DNA is designed to woo developers into using Microsoft's proprietary technology for application development, although it allows for some degree of interoperability with open development environments.

MORE THAN MIDDLEWARE

Microsoft's approach differs from the common Unix-based, layered middleware approach, in which application services reside above the operating system and use different sets of services for security, maintenance, and other functions. With Windows DNA, Microsoft is trying to integrate capabilities such as a high-performance Web server, scalable object request broker, distributed transaction manager, messaging-oriented server, and other application servers directly into the Windows NT Server operating system.

These application services—including distributed security functions, scalable X.500, LDAP directory services, and built-in networking support for TCP/IP and other protocols—are designed to work with a common infrastructure in Windows NT. Microsoft claims that the Windows DNA framework is designed around open protocols and is built on the standards approved by the World Wide Web Consortium (W3C) and the Internet Engineering Task Force (IETF). Microsoft adds that it's working to make COM available on Unix, MVS, and Macintosh platforms and will port Internet Explorer to a number of Unix platforms and the Macintosh.

THE COM CORE

The heart of Windows DNA is based on proprietary technologies, including COM, which is essentially a software architecture that allows applications to be built from binary software components. It is the foundation for providing other software technologies, such as Object Linking and Embedding (OLE), which provides services such as compound documents, custom controls, interapplication scripting, and data transfer.

COM allows developers to enhance and extend parts of applications via software component plug-ins that can be written in C++, Visual Basic, Java, or other languages. As a result, Windows DNA supports development tools from Microsoft, Borland International, Powersoft, and many others. Windows DNA is designed to integrate and manage not just distributed applications, but also key functions such as security, management, transaction monitoring, component services, and directory services.

When Windows NT 5.0 becomes available, two new extensions to COM will be fully implemented, COM+ and DCOM. COM+ is an enhanced component environment that integrates additional services, including transactions, data binding, events, garbage collection, and security functions. Because the additional functionality is contained within objects, developers can add functionality to their applications simply by adding a COM+ object.

Distributed COM (DCOM) is an object bus that allows components in distributed applications to communicate with other components and access distributed Windows platform services, regardless of whether the objects are running locally or on a remote machine. DCOM is based on existing network protocols such as TCP/IP, DCE-RPC, and HTTP.

Through the implementation of COM and its extensions, other application types and services can be designed, implemented, and used within a seamless and scalable platform solution. The goal, according to Microsoft, is to provide an application framework that not only is interoperable with the newest technologies, but can also allow new applications to be built to work with existing applications.

One of the other key components of Windows DNA is Windows NT 5.0, which will incorporate Active Directory, the Windows NT 5.0 directory service that will tie together existing components such as Active Server pages, OLE DB, security and digital certificates, transaction processing, and message queuing.

Active Directory will provide a platform that unifies the access and management of both network and operating-system resources. The new operating system will also provide management features such as centralized configuration management, unified instrumentation with the event subsystem, and a wholly integrated management console.

These features are designed to provide remote and automated management of software, hardware, and user-data settings, regardless of the client type or whether it's a local or remote deployment. OLE DB will be used to provide a common API for linking structured and unstructured data stores. OLE DB can define different interfaces for accessing and manipulating all types of data. What's more, these interfaces can be used by both the data-consumers and the application developers.

By splitting databases apart into more specific sources, the resulting components can be used in an efficient manner. For example, components called service providers can be invoked to expose more sophisticated data-manipulation and navigation interfaces on behalf of simple data providers. For example, using OLE DB, a developer can write an application that taps into data stored in an unstructured source such as an Outlook address book and a structured SQL Server RDBMS.

Microsoft is also working to extend DNA outside the Windows world, using its brand of Dynamic HTML, which relies on Dominant Object Model (DOM) to expose all page elements as objects. These objects can easily be manipulated by changing their attributes at any time. Dynamic HTML also provides full support for keyboard and mouse actions on all page elements. Other features include dynamic content, style, and positioning effects.

Two other features are also enabled with Dynamic HTML. Data binding allows data-driven application front ends to be built, which can present, sort or filter, and update data on the client without needing to make multiple round-trips to the server. Data binding will likely help speed up information requests and make them more efficient.

ILLUSTRATION BY TIMOTHY COOK

For example, if a Web page contains a list of information and allows sorting by any number of criteria, the user is forced to submit additional requests to the server to sort the information and then repost the information. If Web authors want to allow the user to add or update the data, they typically create HTML forms and submit GET and POST requests to an application running on the server.

The server application then must parse out the data from an HTTP data stream and then log the data into a database. Each time an update is requested, the page containing the Submit button and the form data must be reloaded, taking additional time and resources.

Meanwhile, scriptlets are Web pages authored with Dynamic HTML that content providers can use as a component in their own Web applications. These scriptlets are essentially pages that function as objects—they can be reused and inserted into other applications.

Scriptlets are designed to eliminate redundancy and the time-consuming recoding of entire HTML pages. Currently, to reuse HTML and script, Web-site authors need to cut, paste, and then customize existing code. With scriptlets, content providers are able to author content once, using the HTML and script they are familiar with. Then others can reuse this scriptlet within other Web pages and applications simply by following conventions that expose well-defined interfaces. Through these interfaces, other authors can reuse and customize existing scriptlet content without needing to understand how the code was implemented initially.

Microsoft also claims that incorporating scriptlets in Web pages can reduce performance delays. Because these scriptlets are composed of just HTML and script content, they are quick to download and run for end users. Once the scriptlet is downloaded to the client, it can be cached for future use.

MIGRATION

Microsoft has stated that although all components aren't yet available, such as Windows NT 5.0, developers can develop for the framework anyway. Each of the industry's leading Rapid Application Development (RAD) tools is supported today, including Microsoft Visual Basic, Microsoft Visual J++ development software, Borland's Delphi, PowerSoft's PowerBuilder, and Synon's Obsydian. Standard-based HTML and

(continued on page 498)

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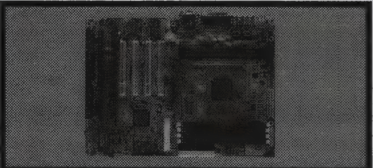

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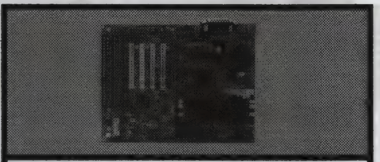

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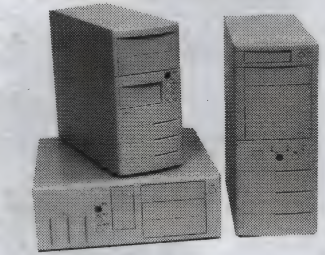

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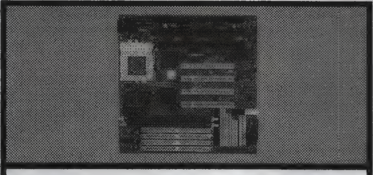

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8500TTD w/512K Cache

• CPU: Pentium 75-266MHz • Chipset: Intel® 439TX PCI set • Memory: 8-256MB, FPM, EDO, Synchronous DRAM & ECC Function • Memory Socket: 2-DIMM & 4-SIMM • Cache: 256/512K • Slots: 4-PCI, & 3-ISA • I/O: 2S, 1P, Floppy, IrDA • IDE: 2 Bus Master IDE Ports • BIOS: PnP, Award, NCR SCSI • Switching Mode Regulator • Size: 2/3 Baby AT • Dimensions: 22cm x 22 cm [WxL]

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w/ AMD-K6™MMX™ 200MHz processor	$199
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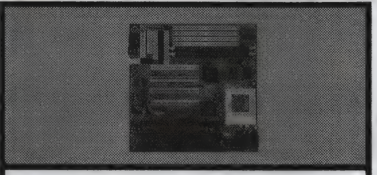

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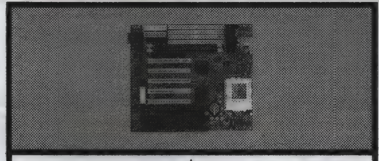

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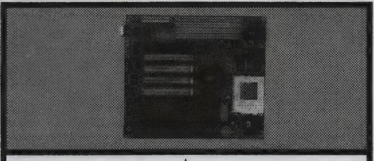
w/Intel MMX™ Pentium® 233MHz CPU	$249
w/ AMD-K6™MMX™ 200MHz processor	$199
w/ AMD-K6™MMX™ 233MHz processor	$229
w/ AMD-K6™MMX™ 266MHz processor	$299



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MS-5146 w/512K Cache

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w/Intel MMX™ Pentium® 233MHz CPU	$239
w/ AMD-K6™MMX™ 200MHz processor	$189
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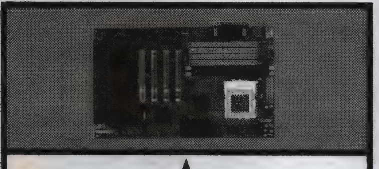

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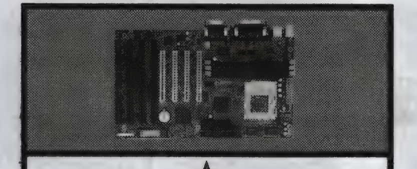
w/Intel MMX™ Pentium® 200MHz CPU	$235
w/Intel MMX™ Pentium® 233MHz CPU	$365
w/ AMD-K6™MMX™ 200MHz processor	$209
w/ AMD-K6™MMX™ 233MHz processor	$239
w/ AMD-K6™MMX™ 266MHz processor	$309



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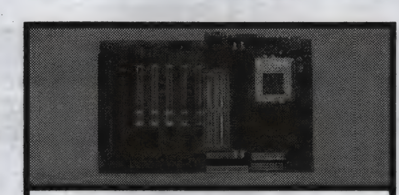
w/Intel MMX™ Pentium® 166MHz CPU	$225
w/Intel MMX™ Pentium® 200MHz CPU	$245
w/Intel MMX™ Pentium® 233MHz CPU	$275
w/ AMD-K6™MMX™ 200MHz processor	$219
w/ AMD-K6™MMX™ 233MHz processor	$249
w/ AMD-K6™MMX™ 266MHz processor	$319



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Intel® 430TX PCIset Mainboard

M5TTB w/512K Cache

• CPU: Pentium 75-266MHz • Chipset: Intel® 439TX PCI set • Memory: 8-256MB, FPM, EDO, Synchronous DRAM • Memory Socket: 2-DIMM & 4-SIMM • Cache: 256/512K • Slots: 5-PCI, & 3-ISA • I/O: 2S, 1P, Floppy, IrDA • IDE: 2 Bus Master IDE Ports • BIOS: PnP, Green, DMI, NCR SCSI • Switching Mode Regulator • Size: ATX Form Factor • Dimensions: 30.5cm x 19cm [WxL]

without CPU	$99
w/Intel MMX™ Pentium® 166MHz CPU	$215
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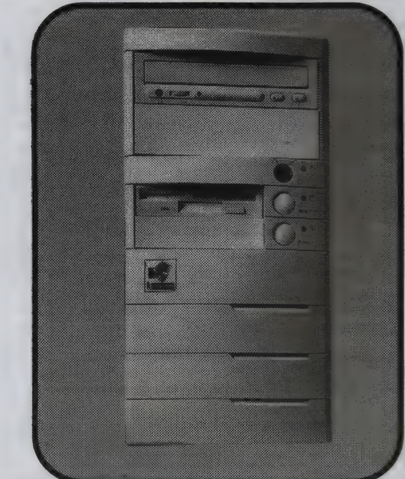

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Microsoft's Own Strand of DNA

(continued from page 493)

Web-authoring tools are also fully supported within Windows DNA, including the Microsoft Visual InterDev Web development software and the FrontPage Web-site creation and maintenance tool.

What's more, Windows DNA applications will be able to use a variety of back-end services via the BackOffice platform, including SQL Server, Exchange Server, SNA Server, Systems Management Server, and Site Server. Applications will also be able to access other vendors' back-end services, such as Oracle databases or Lotus Notes groupware servers, through open protocols and common interfaces defined by the Windows Open Services Architecture.

Another initiative, Microsoft's Zero Administration Windows (ZAW), provides additional capabilities for simplifying the management of the desktop environment, including the Windows installation service and IntelliMirror PC management technology. IntelliMirror PC keeps synchronized copies of critical information on a network server so they can be rapidly restored at the desktop, eliminating excess trips to the server. In addition, Microsoft is working on an additional set of Windows-based services for managing a distributed computing environment, including Web-Based Enterprise Management, Microsoft Management Console (MMC), and Windows Management Interface.

HOOKING UP

Through Microsoft won't likely push Java as a development model, it says Java-based components will be supported under Windows DNA. Developers can build Java components that are exposed as COM objects so they can be easily integrated into any tier of the application architecture via Microsoft's Java VM for Windows. In addition, Microsoft's Java VM is integrated with Internet Information Server to execute server-side Java code on Windows NT Server.

Microsoft says it is porting its Java VM technology to non-Windows platforms, where it will be delivered with Internet Explorer.

In addition, older technologies and applications, such as Common Object Request Broker Architecture (CORBA) developed applications, can be integrated into Windows DNA through COM/CORBA bridging products, which will be available from CORBA vendors. Still, the company admits that the lack of standardization among CORBA objects might cause problems when trying to hook into the Windows DNA bridging products. COM/DCOM products will be available on Unix and other platforms to facilitate the integration of existing systems with new Windows DNA-based applications.

> As Microsoft knows, ubiquity is the key to success when it comes to application development.

Windows DNA will also be able to provide integration with mainframe systems and other older legacy data systems via Microsoft SNA Server and SQL Server gateway options. In addition, Microsoft's Cedar technology will provide automated, object-based encapsulation of legacy applications and data through COM components. Cedar components will allow bidirectional access to transaction systems and legacy data sources including DB2/MVS, IMS, and VSAM.

In addition, it will be possible to send and post existing mainframe application systems over the Internet through Cedar's integration with Internet Information Server. Transaction Server will also integrate with Cedar to allow heterogeneous distributed transactions between the network and mainframe environments.

Perhaps most important to end users is how Windows DNA applications will integrate with desktop-productivity software such as Microsoft Office. According to Microsoft, all Office applications are COM- and Web-enabled, and can be fully integrated with Windows DNA-based applications. In addition, Microsoft Office was coded to support the same scripting model and open-component architecture as Internet Explorer (and Active Desktop). This provides seamless integration of the Web with the personal-productivity environment.

WHO IS USING IT?

Of course, as Microsoft knows, ubiquity is the key to marketplace success, especially when it comes to application development. That's why the folks in Redmond must've been pleased with the number of endorsements they've already received for Windows DNA.

For example, business-application developer Infinium Software announced that it's adopting Microsoft's Windows DNA architecture and a number of Windows- and BackOffice-platform technologies throughout its product line.

Enterprise-software giant Computer Associates also announced plans to provide support for Windows DNA. SAP AG followed suit, endorsing Windows DNA and announcing that its R/3 System would make COM its object model of choice. And Baan Co., developer of distributed enterprise-computing applications, announced a long-term strategic alliance with Microsoft to work closely together on developing solutions for enterprise customers. ▼

SECTION CONTINUES ON PAGE 502

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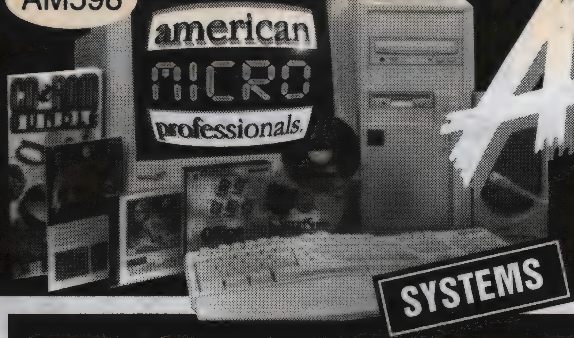

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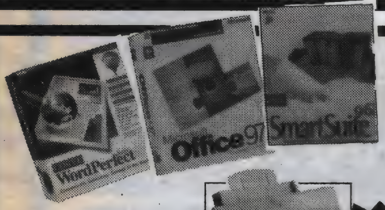

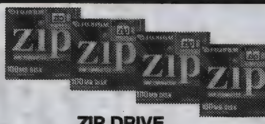

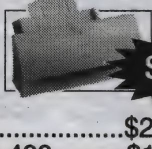

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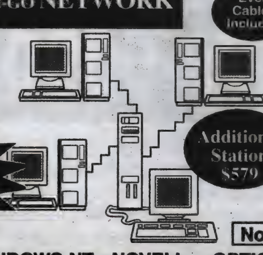

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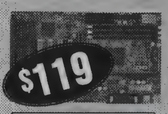
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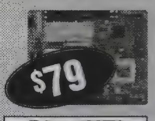
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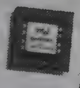

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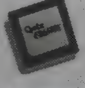

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What Ever Happened to... the First Workstation?

by John C. Dvorak

The real activity of designing and marketing a workstation began shortly after the invention of the Xerox Alto in 1970. By the time the first workstation (the Three Rivers PERQ) hit the market, it was already doomed. The Mits Altair had already started the microcomputer revolution, which eventually engulfed what would have been the workstation market. Unfortunately, too many other pieces to the puzzle were missing for the early workstation companies to take off, most notably the absence of a killer app and true value for the consumer. This was especially true for the Three Rivers PERQ.

The engineering community, the early adopters of workstations, sought a standalone powerhouse machine during this era. The individuals with no money went to the microcomputer. The well-heeled tried various odd machines and then flocked to the workstations.

THREE RIVERS

Five people out of Carnegie-Mellon decided to produce the first real workstation and created a start-up in Pittsburgh called Three Rivers. This excited the computer community. The key was a fast vector display technology. The company formed in 1974, but nobody heard of these guys until 1979 when the first machine was released. It was named the PERQ. According to PERQ historian Bob Hopgood, the name—which came from the word "perquisite," meaning privilege, benefit, bonus, perk, or dividend—was selected after the company rejected the names System Q, the Oakland, and Pascal Alto. He describes the first machine as "a 1 MIP system with Pascal P-Codes as the order code, 256K of memory, and a 12MB hard disk."

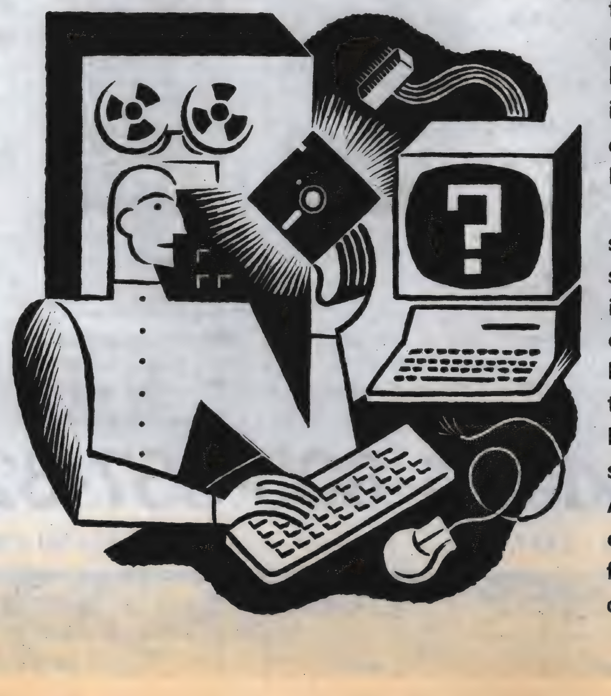
The most impressive part of the system was a 768x1,024 bitmapped display with exceptional performance. Stan Kriz and Brian Rosen knew how to make displays and continued making a living in this area long after the collapse of Three Rivers many years later. A high-resolution display for radiographers that they developed is currently on the market in the United States. Initial PERQ systems were to have a touch-sensitive pad similar to the one on the current Apple PowerBooks but quite a bit larger.

A CURIOUS COMPUTER

Iain A. F. Fleming a serious computer collector in the United Kingdom, says, "PERQs were user-microprogrammable, with AMD2910 sequencers and 74S181 ALUs as their CPU (170ns microcycle time). They initially offered a 4K writable control store (later 16K), 256 general-purpose registers, and 1MB of RAM (eventually 4MB in the 24-bit PERQs). They also had a 16-bit barrel shifter that provided exceptionally fast and flicker-free raster ops. A 14-inch Shugart hard drive and a single, double-sided 8-inch floppy disk drive comprised the mass storage system."

The external communication systems available for PERQ were the IEE-488, an RS-232 serial port (later models had two), and AUI Ethernet (which could be driven as TCP/IP or OSI/ISO). Other curiosities included speech/sound circuitry (which was never used), software power switching, five fans (later models without the 14-inch hard drives had only four fans, so they no longer sounded like an airplane taking off when powered up), and a laser printer.

The PERQ ran several operating systems, including a special port of PNX, the 7th Edition Unix OS; the Pascal-based POS operating system; and ACCENT, a predecessor of MACH from CMU. Physically, the PERQs



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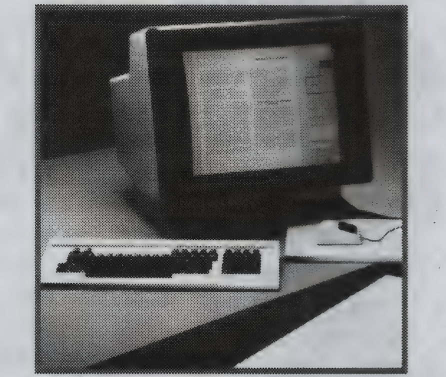
were heavy, at about 150 pounds, and large; they were bigger than a micro-VAX or a Sun 3/160, yet still fit under a desk. They could also heat a room of fair size.

British users in particular went crazy over these machines. ICL, the successful British electronics company, was developing its own workstation, but soon invested in the PERQ project as a joint venture. You'd think this would have given it an edge. The plan was to release a 32-bit system with a super-high-resolution display by 1980. Unfortunately, just as the machine was supposed to hit the market, the company's underlying faults appeared as well. Management was short on financial and manufacturing skills, the software had problems, and the marketing left something to be desired. But there was a lot more wrong than these underlying issues. They had display technology and little else.



The boards used in the machine were outsourced, and the subcontractor apparently couldn't make the six-layer, 290-chip processor card necessary for the workstation. According to Hopgoods, all of 1980 was spent trying to resolve these manufacturing problems. Meanwhile, oddly enough, the company was swamped with orders for the PERQ. The first production model was shipped in November 1980, almost a full year later than promised.

Before the first PERQ was shipped, other companies recognized the market opportunity and began their own efforts. In fact, the next big player, Apollo, formed in May 1980. The first PERQ didn't actually arrive in England until January 1981, since it got lost in the mail, as it were. Hopgood spins a ludicrous tale about how the machine was shipped to the British Embassy in Washington and resent to England. The staff in Washington unpacked and repacked the machine in a big box that was hammered shut with 4-inch nails. Consequently, the box was not the only thing to be nailed; the nails went straight into the machine itself. Then the entire package was misplaced. Mysteriously, perhaps.

When the thing was recovered and finally shipped overseas, it was bounced around so much that it was a shambles by the time it reached ICL. To me, this entire episode was symbolic of the PERQ history, which quickly achieved fiasco status. Even more interesting is how quickly it was forgotten. I recall seeing one of these machines at a trade show in the early 1980s, and there was always a crowd around it. It had real appeal.

But if you study computing history, this machine is absent from the time line. And as Hopgood repeatedly points out, the PERQ employed a desktop computing metaphor with its overlaid windows—quite ahead of its time. Funny how this fact has never entered into the Apple Macintosh/Microsoft Windows look-and-feel debate. I don't recall a mention of the PERQ in John Sculley's book *Odyssey: Pepsi to Apple: A Journey of Adventure, Ideas, and the Future.* Funny business, indeed.

AND THERE IS MORE

One of the largest privately held collections of old computers belongs to William von Hagen of Pittsburgh. (You can visit his online collection at *www.city-net.com/~wvh/collection.html*). He fondly recalls the PERQ as a machine ahead of its time.

He suggests the lack of a killer app was the root of its demise. I believe that it was simply bad business. Further, the relationship with ICL was simply bad East Coast thinking. The entire company should have relocated to California, where the infrastructure of entrepreneurial talent has long since reached critical mass. History might have been different if a joint venture with a vibrant Pacific Rim company had developed. It's no coincidence that the workstation market was eventually taken over by Sun and HP, two companies based in Palo Alto.

And then there was the price. By the time a proposal for the PERQ-3 appeared, Sun was selling similar machines for half the price of a PERQ. As someone with a microcomputer during the PERQ-1 era, I was aghast at the $10,000 price for the machine, along with a $2,200 floppy disk drive and a $350 repair fee. I can barely even mention the $525 keyboard. Surely, these prices were out of whack.

The early PERQ machines were designed with a discrete-logic CPU, and the PERQ-3 was to be a 68020 machine. In the end, Three Rivers was a company ahead of its time but too late to play the game it began. By 1986, ICL was designing a different version of the workstation, known as the PERQ-3a. Three Rivers went out of business in 1986, and its people scattered about to other companies. Today, the machine is just a memory to all but a curious, thriving hobbyist community dedicated to the PERQ. ▼

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Tech Section

Alfred Poor's Computer Cures

by Alfred Poor

CATCHING A CAB

Dear Alfred:

I recently bought a computer that came with Windows 95, but the CD-ROM was not included. Instead, the distribution CAB files were copied to the hard drive's WIN95 folder. How can I protect myself from losing it all in a crash?

Norman Smith
via the Web

Dear Norman:

As profit margins have become razor-thin, manufacturers have sought ways to shave costs from their products. Leaving out the installation CD-ROM, which costs a dollar or two to create, can make a difference in the corporate bottom line. While it certainly is preferable to receive distribution discs with a new system, it is not illegal for a company to leave them out; Microsoft Corp. has been making such licensing arrangements for years. The problem is that it places the burden on the user to back up the programs.

You have a number of choices. You can create your own distribution disks by copying the files to a series of floppy disks. The CAB extension is used for "cabinet" files, which have a compressed archive format that enables them to hold multiple files, similar to the familiar Zip file format. You can copy these files to a series of floppy disks for use in emergencies.

To retrieve individual files, you'll need to use the Extract program. The syntax for this DOS utility is:

```
EXTRACT [/Y] [/A] [/D] [/E] <CAB
file> [<filename>] [/L <destination
folder>]
```

The square brackets [] indicate optional items. The /Y switch causes the program to skip any warning prompts about overwriting existing files. The /A switch causes the program to search the named CAB file, and if it can't find the desired file there, it will search all higher-numbered CAB files as well. The /D switch causes the program to display the contents of the named cabinet file. And the /E switch causes all files from the named cabinet file to be extracted; it is the equivalent to using *.* as the <filename>. The /L switch is used to indicate the destination folder; if you don't specify one, the extracted file(s) will go into the current directory.

This may be the long way around the barn, however. You might find it easier to simply get a backup device that can store your entire hard drive—or at least enough of it to enable you to restore the boot files and the Windows directories—so you do not have to reinstall Windows after a crash. Even if you do reinstall Windows, you may well lose all the configuration information stored in the various INI files and your system's Registry files. A backup is a much more efficient way to restore your system after a disaster.

Whichever route you choose, make certain that you have a boot floppy that contains all the programs you need to access your backup data, such as the Extract program if you're going the floppy route, or the drivers required to access your backup device. Test these preparations when you make them, because you don't want to wait until after you've had a problem to discover that you can't use your backed-up data.

WHAT HAVE YOU RUN FOR ME LATELY?

Dear Alfred:

The Start/Run command has a drop-down list that contains commands that have been used. Is there a way to edit or delete this list? Using REGEDIT, I found the commands listed under "RunMRU," but I wasn't sure if I should delete them from there.

Dennis Herbst
via the Web

Dear Dennis:

It is always a good idea to exhibit some restraint when experimenting with REGEDIT. As I have mentioned in the past, any change made with REGEDIT is immediate, and there is no undo command available. As a result, always make a backup of your Registry files before making any changes—just in case.

In this situation, you have located the right part of the Registry. "Run" refers to the Run command, of course, and "MRU" stands for "most recently used." There are 26 entries in this list because Windows uses the 26 letters of the alphabet to keep track of the commands

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Alfred Poor's TIP OF THE MONTH

Not so long ago, what-you-see-is-what-you-get (WYSIWYG) interface features were the big news. People then started hoping for a "do-what-I-mean" (DWIM) interface. In many ways, Windows 95 has given us more DWIM features than we may realize. Slide in a CD-ROM, and not only can Win 95 start loading it automatically, but it can decide whether it's a CD-ROM or an audio CD and treat it accordingly. In a similar vein, you can double-click on a file in Windows Explorer, and Win 95 will launch the appropriate application and load the file you selected.

Both a strength and weakness of these features is that they are not permanent parts of Windows 95. You can turn the CD AutoPlay on or off, or change the association of files so that they launch a different program. On the upside, this puts you in control of deciding how Windows works for you. On the downside, however, it can make it more difficult to figure out what to fix when things don't do what you want—especially when some of the key information isn't documented. This month's Tipster uncovered a handy tip that helps solve such a problem:

Dear Alfred:

My friend is having a problem playing MIDI files on his system. In the past, he could double-click on them, and Media Player would play the file and close it when it was finished. When he installed some new software, it changed the file association for MIDI files to some other program. When he changed it back to Media Player, it would start, but it would no longer automatically play the file and close when it was finished.

I checked my file associations for MIDI files and found some extra parameters:

C:\WINDOWS\mplayer.exe /play /close

When my friend added those parameters to his settings, he could play MIDI files just as he had been able to in the past.

Walter Zackery
via the Web

Dear Walter:

This is a great example of how you can discover some useful information just by looking at how another system is configured. Unfortunately, this is about the only way that you'll discover this information because it is not well-documented.

You can check the file association by opening Windows Explorer, choosing View Options, and selecting the File Types tab. Scroll down until you find the type of file you want—in this case, MIDI Sequence—and choose Edit. You'll then see a box marked Actions. This lists various actions that can be defined for this file; these actions will be included on the menu of options when you right-click on a file of this type in Explorer. One action will be in bold text; this is the default action, and the one that will occur if you double-click on the filename in Explorer.

If you highlight an action and then choose Edit, you can see the command line used for that action. In the case of the default Play action for MIDI Sequence files, you'll find the syntax as Walter has listed it. ▼

ILLUSTRATION BY NIKOLAI PUNIN

used. You can go in and delete one or more of the lettered keys if you want; you should also remove the letter from the value in the MRUList key as well. Keep in mind that the change does not take effect until you reboot. (Actually, for this list, you can simply choose Start/Shutdown, and then No, and the RunMRU list will be reset to the Registry values.)

An easier solution, however, is to download the Power Toys utilities from the Microsoft site. Power Toys includes the Tweak UI utility, which lets you make a number of changes to your system—including clearing the RunMRU list—quickly and safely without resorting to REGEDIT, which can be the Win 95 equivalent of playing with matches.

FEAR OF FLYING?

Dear Alfred:

I will be traveling soon and I need to know if there are any problems associated with taking Zip disks and floppy disks through the airport X-ray scanner and metal detectors.

Eric Johnson
via the Web

Dear Eric:

Others have also expressed this concern, but you'll be pleased to know that you have little to fear. The magnetic fields used for the X-ray machines and metal detectors are relatively weak and pose virtually no threat to your magnetic data.

Magnetic fields disperse rapidly with distance, and the magnetic read/write heads of a disk drive must get very close to the magnetic media to change the stored data. The chances of a disk getting close enough to airport security devices to cause damage are too small to worry about.

If you want an empirical demonstration that your data is relatively safe, take a fresh floppy disk and save some files to it. Then take a strong magnet—such as the type

(continued on page 508)

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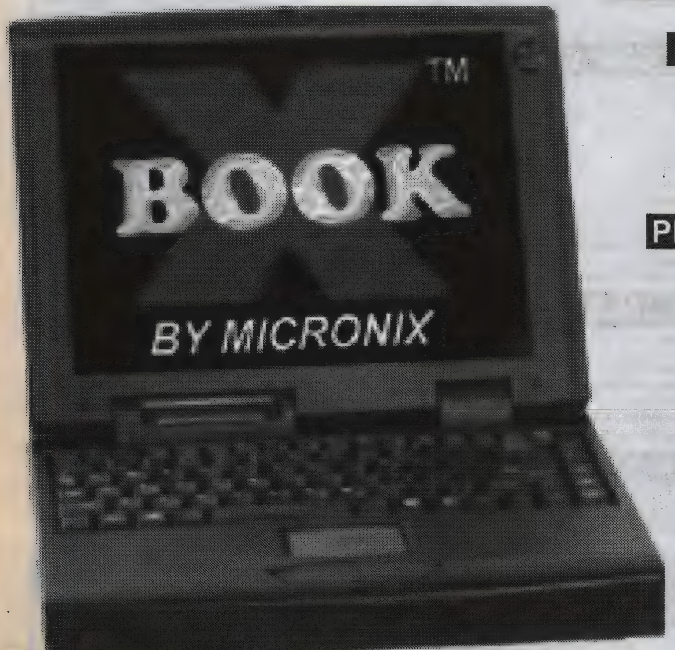

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Tech Section

Alfred Poor's Computer Cures

(continued from page 505)

used to hold items on a refrigerator—and wave it a few inches from the disk. Your data will almost certainly be intact. In fact, you may find that you have to actually wipe the surface of the disk casing repeatedly with the magnet before you cause any damage. The recorded data on your disks is far more durable than you might imagine.

On a related note, there was an "alert" that received broad coverage on the Internet this past winter warning that notebook hard drives had been wiped when placed on the "magnetized tray tables" on certain transatlantic flights (specifically Airbus A340 airliners flown by Sabena). The alert was attributed to the International Air Transport Association (IATA), but it has turned out to be a hoax. The IATA denied issuing the alert, which the group described as "unsubstantiated." (You can read the press release at *www.iata.org/pr/pr97dece.htm*.) As it turns out, the tray tables in question are constructed of plastic and aluminum, which means that they are not magnetized.

None of this means that you shouldn't take precautions when traveling with valuable data. If you're making a critical presentation or working with important information, make a backup copy of your data and put it in your checked luggage. If your notebook should be stolen or damaged, you will still have the other copies. If you have remote access to your e-mail, consider sending yourself a copy of the files. If all other copies are lost or damaged, you will still be able to retrieve the files via e-mail when you reach your destination. Even though your data is safe from X rays, it takes only a small effort to get the added insurance that a "belt-and-suspenders" strategy provides.

THE MUSIC GOES ROUND AND ROUND...

Dear Alfred:

I am looking for a new CD-ROM drive that can extract digital audio because I want to create audio CDs for use in my car. I already have a 6x read, 2x write CD-R drive. Do you have any suggestions? Thanks in advance.

Bart Lad
via the Web

Dear Bart:

Without naming specific models, I do have some suggestions.

First, if you buy a CD-ROM drive that extracts digital audio well, you will be able to copy selected tracks from your CD-ROM drive directly to your CD-R drive. I would call your CD-R drive vendor to obtain a list of suggested CD-ROM drives. If your CD-ROM drive cannot adequately extract digital audio, then your CD-R drive can do it, but you will need lots of hard drive space to hold an image of the audio CD you create.

If you are planning to copy a complete CD directly from the CD-ROM drive, then you'll probably be best off using a SCSI drive. Some IDE drives cannot maintain a continuous data stream, and in some recent tests, I found that the results were full of pops and breaks that essentially ruined the copies.

Finally, keep in mind that there are copyright laws to consider. CD-R drives make it easy to make copies of copyrighted works—both audio and data CDs—so be sure to limit your creations to legitimate uses.

CUTTING REMARKS

Dear Alfred:

I have a favorite Web site where I often find some good tips that I'd like to save. If I print the page, I get parts at the top and bottom that I don't want. Is there an easy way to cut and paste content from a Web page?

Larry Goldberg
the Web

Dear Larry:

In many cases, you can actually click and drag the text on the page. You can then use the Edit Copy command (or usually the Ctrl-C keyboard shortcut) to then copy the text to the Clipboard. You won't get any fancy formatting, but this will successfully grab the text for you.

If you can't grab the text, check to see if your browser has a View Source command or a similar feature. This will let you look at the actual HTML source code used to create the page, often using an editor such as Notepad. You can either print directly from this view (after deleting the embedded HTML codes if you choose) or you can selectively copy sections of the source code and paste it into another application.

Note that some Web pages use graphics to display text information. To use a fancy font for a headline or other element, the words have to be converted into a graphic image to be included in the Web page. You won't be able to cut and paste the words of text if it is displayed as a graphic, but you should be able to save it as a graphic file or print it.

Sometimes you may be able to print just an edge of the page, or perhaps nothing at all. This can happen when the page has been defined as a set of frames. To solve this problem, simply click on the area of the page that you want to print, and that should change the focus of the browser so that it will print the contents of that frame. ▼

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What's the Code?

by Rich Dragan

More Powerful Animation in Java With DirectX

The ability to display GIF or JPEG images one at a time in quick succession is the essence of simple animation in Java. This capability has been around since the first incarnation of Java in Sun Microsystems' JDK 1.0 specification. This month, we'll look at how to extend the standard Java graphics classes to provide even smoother and more robust animation, and how to start using DirectX in Java to get better multimedia performance.

Java developers use the MediaTracker class to download images asynchronously—that is, using a separate thread for the actual image download. (Asynchronous processing is a little more complicated, but the benefit is that your applet or application doesn't "freeze" while a large amount of graphics content is downloaded over the wire.) With the integration of JavaBeans in the most common Java tools, the do-it-yourself approach to creating simple animations isn't necessary. All the major Java tools today, from Symantec Corp.'s Visual Café and Borland International's JBuilder to Sybase PowerJ, use JavaBeans to create simple animations quickly.

SOMETHING OLD, SOMETHING NEW

Though I still teach the original "hack-it-yourself" method of animation in my Java course for business programmers, it's a little old-fashioned. With JavaBeans, a developer can create an equivalent animation with just a few clicks of the mouse. JavaBean handles all the details for you, including the inner workings of the download process.

For advanced animations, though, there's a good deal more to consider, and this is where some programming expertise comes in handy. Suppose you want to manipulate a section of the screen in Java instead of repainting the entire scene each time. You might want to display players and a puck instead of the whole hockey rink, for instance. Here, you run into the classic problem of how to emulate double-buffering of graphics in Java. In double-buffering, graphics elements are combined offscreen and then "flipped" to the visible screen. The result is flicker-free, or smooth, animation. Elements such as bitmapped images can be efficiently combined for a simulation, a game, or even a business presentation.

This kind of animation takes a little work to carry off in Java. Basically, you have to create a Java Graphics object in memory, which writes to an offscreen image. You use the displayImage() method to combine smaller images on a single screen. When you're finished, you then copy the entire image to the screen, once again using displayImage(). Double-buffering performed in Java is apt to be slower than native code, which is where Microsoft Corp., the principal ally of native code in the Java wars, comes into play with its DirectX. (The solution is also part of our JavaDirectX.zip download that accompanies this month's column.)

Okay, so DirectX works only for Windows users, but the rule with DirectX is that you get to play with killer graphics and sound hardware in an independent way. In other words, the same code is compatible with various hardware cards, as long as your DirectX device drivers are working correctly. You can access the advanced capabilities of today's hardware—such as 2-D/3-D acceleration, advanced sound, and even music capabilities—while using the same code. This independent access to specialized hardware is a necessity for successful development. If you don't have a souped-up graphics or sound card, your DirectX application can still work, more slowly, using software emulation. Recent DirectX drivers can even take advantage of the capabilities of today's Pentium MMX processors.

DirectX is, of course, the gaming platform from Microsoft. Although Windows machines will perhaps never be direct rivals to your Nintendo or Sony PlayStation, there are good reasons to call DirectX a success. DirectX carves out the various aspects of game development into different APIs. These include DirectDraw for 2-D graphics, DirectSound for game-quality sound, and Direct3D for handling 3-D graphics. (Other DirectX modules handle input and even manage multiplayer games over the Internet. Luckily for Java developers, all these DirectX modules are accesssible from within Java, too.)

ILLUSTRATION BY DENNIS HARMS

A PLACE FOR DIRECTX

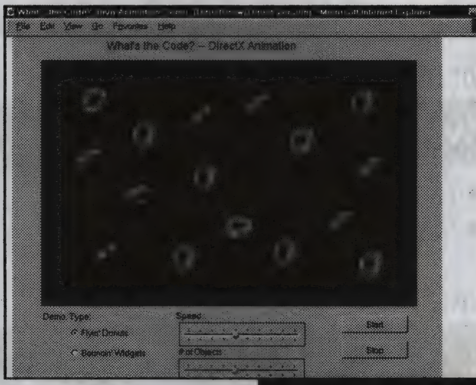
Naturally, given the renegade nature of game developers, Microsoft faced an uphill struggle winning over the gaming market with DirectX. But the Internet sure helped things along, with a vast new market for multiplayer gaming. Believe it or not, DirectX can coexist peacefully with Java—now more than ever. First, Java lets you use ActiveX/COM components (the underpinnings of the DirectX modules). In short, it's even easier to call up DirectX objects using Java than it is with C++. Microsoft clearly sees the potential for creating animations with DirectX and Java's DirectAnimation technology, which features an entirely new way to program. (See the July 1997 "What's the Code?", p. 580, for more details.) DirectAnimation treats all types of DirectX content—including 2-D/3-D graphics and sound—as interchangeable elements. The problem with DirectAnimation is that its programming model is new and fairly difficult to master. It's arguably true that DirectAnimation will not entice traditional game developers. But for creating complicated graphics and sound animations, it can certainly do the trick for those willing to delve into its capabilities.

The other gripe with DirectX is, naturally, that it requires Microsoft's Java Virtual Machine (JVM), with its special ActiveX/COM abilities. Recent announcements by Sun suggest that Microsoft's version of Java is going to become the de facto standard for Windows platforms. We're looking into the crystal ball a little here, but it's not hard to gauge what's happening. In the new JDK 1.2 specification, DirectDraw technology will be used for printing. This means Sun is admitting that instead of being a rival to pure Java, native code (via DirectX) will have a role for basic printing capabilities, at least on the Windows platform.

Netscape Communications Corp. also has plans for curtailing its reliance on a separate JVM in future versions of its browser products, meaning that Microsoft has apparently won the battle over the standard implementation of Java in Windows. Regardless of the legal squabbles between parties here, it's clear that Java has grown to be an operating system within an operating system.

TRY IT OUT

This month's download is a sample 2-D animation written in standard Java classes, using the DirectDraw module of DirectX. (The JavaDirectX.zip file is available for downloading along with this month's column.) The basic idea here is to simplify animation with support classes that handle the nuts and bolts of double-buffering, whether or not you're using DirectX/DirectDraw. By using these support classes, you can easily create animations and compare the performance between "standard-equipment" Java animation and the future-oriented animation using DirectDraw/DirectX.


File Edit View Go Favorites Help
What's the Code? — DirectX Animation
Demo Type:
Flyin' Donuts
Bouncin' Widgets
Speed:
# of Objects
Start
Stop

Using the support classes found here, you can more easily create animations and check out their performance against Java.

The basic classes here encapsulate and simplify the internal workings of each language. For regular Java, our JImage class takes care of loading images asynchronously. The JScreen class is the drawing surface that will serve as a blank slate for drawing. The JElement class works on moving a particular JImage in real time. Each image can be moved according to different rules—different directions, speeds, or types of movements. After the elements are combined offscreen using the JScreen class, they're flipped to the visible screen as quickly as possible. This process is the essence of double-buffering and can be used for creating smooth (though not necessarily high-performance) animations. We've defined a Java interface, Janimator, to standardize additional methods that need to be defined before an applet will cooperate with this scheme. Methods such as initContent(), doRendering(), and updateFrame() let you design with animation in mind.

To run a Java-based animation with a variety of options, including the number of objects to display and their speed, check out the J2DAnimDemo.html file (using Microsoft Internet Explorer 4.0). (Additionally, you can time the frame rate of the graphics performance available on your system. This can serve as a point of reference for the DirectX version below.)

For the DirectDraw/DirectX version, the same types of classes are used, but they've been put in high gear to run with DirectX under the hood. These include DXImage for loading images, DXElement for tracking the individual elements of a DirectDraw/DirectX animation, and DXScreen for the underlying drawing surface, where everything will be drawn. (Double-buffering is a lot more powerful in DirectDraw and is an essential part of DirectX.) The interface for getting started here is DXAnimator, which shows you the rules for designing with animation in mind.

Java pros might want to look at the source files, where they'll see that the actual DirectX classes have been imported from the ms.com.directx package. It includes less documentation on using DirectX in Java than it does on using it in traditional programming languages such as C/C++. Basically, we've cross-referenced the material in the DirectX SDK with the Java SDK. Both can be downloaded from Microsoft's Web site: *www.microsoft.com*. Overall, we've taken some of the difficulties out of DirectDraw/DirectX programming by using a simple set of Java classes. This is the strategy of the much more comprehensive DirectAnimation framework from Microsoft, but our set of classes relies on a traditional programming model and can point the way for custom DirectX development using Java.

Try out the X2DAnimDemo.html sample page to see Java and DirectDraw/DirectX at work. This version uses the same graphics and options as the pure Java solution.

Any application that demands high-performance graphics and sound is a candidate for DirectX in Java, whether inside a browser or as a stand-alone Java application. For no-compromise performance in multimedia-intensive Java programs, chances are we'll see a growing role for DirectX and Java in the near future. ▼

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Online CONNECTIONS

WHAT'S IN ONLINE

WHEN YOU CAN'T find the right words to say something, why say it with words alone? Punctuate your e-mail with a video clip. After getting off to a slow start, video e-mail seems to be picking up speed. In May's "Hot Off the Wire" column, Jim O'Brien focuses on the growing number of video e-mail solutions, comparing their different approaches, bandwidth requirements, and overall usability. Before sending your next piece of electronic correspondence, turn to the next page to see how easy it is to embellish your e-mail with a real smiley face, rather than a mere emoticon.

Webmasters will find information that's worth a second look in this issue's "Hot Spot" and "Site Building" columns. If your site's not running as smoothly as you'd hoped, the former suggests you take it to the Web Site Garage for a tuneup. You'll be greeted by a number of free and for-free utilities that you can run quickly and easily, without installation. And if you're looking to update your server software or its capabilities, don't miss "Site Building" guru David Linthicum's examination of Microsoft's impressive Site Server 3.0 and Site Server Commerce Edition—comprehensive, moderately priced products that operate as both knowledge and commerce servers.

In this month's product reviews, "Shareware Shop" serves up a bevy of award-winning utilities designed to tweak your desktop. Our stand-alone reviews discuss HomeSite 3.0, the latest version of Allaire's text-based HTML editor; and AuraLine, a new package that lets you create multimedia Java applets in an easy-to-use WYSIWYG environment. ▼

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consumer's corner

SITES THAT FIGHT FOR YOUR RIGHTS

Consumer Education for Teens

Young adults carrying wallets fat with disposable income are a favorite clientele of many retailers. They're also favorite targets for unscrupulous purveyors of dubious products and services. Consumer Education for Teens (*www.wa.gov/ago/youth*) is a Web site with a simple goal: to help teenagers become educated consumers.

The site delves into 16 subjects of likely interest to teens, such as car repair, music clubs, and scholarship scams. Several sections offer advice on what to look for when purchasing an item such as a car radio or health-club membership. Others give tips on how to avoid becoming an unwitting victim of scams such as get-rich-quick schemes, counterfeit products, and bogus modeling agencies. The site offers one page of information per topic, combining general information, helpful tips, and a "bottom-line" recommendation.

One thing most teens don't want is adults (or Web pages created by adults) preaching to them about how to behave. So visitors to this site might appreciate the fact that it was created by high school students for the Washington State Attorney General's office. When it comes to music clubs and tattoos, teenagers may be more apt to listen to the advice of their peers than to an out-of-it, know-it-all grownup. The text often reads like it was written by teens, but the site is a valuable source of information nonetheless.

The site's introduction offers general tips for inexperienced consumers and hardened mall rats alike. Even adults would be wise to follow the advice dispensed by these adolescents such as avoiding impulse purchases; setting savings goals; and not shopping while hungry, tired, "or otherwise mentally unstable."

Visitors are invited to write to the site's creators with their comments, questions, and suggestions, but the e-mail listed didn't work when we tried it. That's too bad, because this site provides worthwhile consumer information, and its authors should be encouraged to offer more of it.

—Kevin Savetz

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COLUMN

HOT OFF THE WIRE

Video e-mail gets another take.

BY JIM O'BRIEN ~ JOBRIEN@ZD.COM

The day before Valentine's Day, IS managers at *Computer Shopper*'s and Ziff-Davis' New York offices posted stern notices asking for restraint in using e-mail for personal messages, but in vain. Megabytes upon megabytes of animated greeting cards, clip art, and attached photos flooded the corporate LAN and Internet mail gateway the next morning, as they have for each holiday over the past year.

To the dread of network managers and the delight of touchy-feely types everywhere, video is emerging as yet another way to liven up boring e-mail. Though attaching video clips to e-mail is not exactly a new phenomenon—the "videogram" software included with Alaris' QuickVideo Transport video-capture device first appeared in 1996—video e-mail is receiving renewed attention, with vendors peddling bundles aimed specifically at creating video messages.

For example, both Cubic VideoComm's recently released $249 CVideo-Mail and Zap International's forthcoming $199 Zap Mail include all the hardware and software necessary for no-fuss capture, compression, and broadcast of reasonable-quality video messages using standard e-mail packages.

As with Alaris' videograms or Smith Micro Software's equally venerable VideoLink Mail software, these packages can automatically embed the necessary player and video clip into a single executable file, so recipients need only double-click to begin play.

Meanwhile, streaming video companies are bringing their online-friendly compression schemes to e-mail. At press time, both Vivo Software and VDOnet Corp. had simple video e-mail packages in beta release, and Vivo's new owner RealNetworks added an e-mail attachment capability to RealPublisher 5.1, its $50 content-creation package for capturing and encoding audio and video files for online delivery. In addition, RealNetworks' new RealPresenter plug-in for Microsoft PowerPoint 97 lets users synchronize audio narration with slide presentations, then send the package as a RealVideo e-mail attachment.

Proponents are hoping that video e-mail will spark consumer interest where videophones have so far failed, by trading the latter's real-time interaction for better quality and conveniences (such as e-mail's one-to-many broadcasting and the ability to view at your leisure). Says Mark Levitt, research manager for collaborative and intranet computing at International Data Corp: "Video messaging gives you a sense of intimacy and real-life experience without [videophones'] bandwidth problems or the need for people to be connected at the same time."

THE BIG SQUEEZE

Of course, file downloads bring up their own bandwidth concerns, so video e-mail has to be short and sweet. "You can't do the Gettysburg Address," says Jan Ozer, frequent *Shopper* contributor and author of *Publishing Digital Video* (AP Professional). "But most people are hard-pressed to say something cohesive for more than 20 or 40 seconds anyway."

As a rule of thumb, try limiting video messages to 1MB—preferably smaller if your recipients are logging on to the Net via analog modems. Also keep in mind any attachment-size limitations imposed by your corporate LAN, ISP, or Web-based e-mail services (CompuServe users can't send attachments outside of the service at all).

The higher the video compression, the longer you can speak without breaking the limits. Some everyday capture solutions, such as Iomega Corp.'s new $199 Buz or FutureTel's $399 parallel-port-based Video Sphinx Pro, rely on MPEG-1 compression for clips destined for use on Web pages and e-mail messages.

But dedicated video e-mail packages eschew this standards-based approach for proprietary techniques that can crunch the file size even further. (One exception is PictureWorks technology's $50 Net Card software, which imports a variety of standard video formats, compressed or uncompressed, then packages the results with a proprietary viewer. Another exception is RealMedia's $30 SeeMail software, which imports and records video, audio, and still images without using compression or viewers.)

Today's video e-mail packages also aim to make setup, capture, compression, and mailing as painless as possible, and CVideo-Mail delivered on this promise in my ad hoc tests. After installing the included Brooktree-based capture card and Philips camera—a handball-size globe that sits on top of your monitor—I was able to use the software's

The Hot Spot

Soup up Your Site With Web Site Garage

Is your Web site not running as smoothly as it should? Stop by AtWeb's Web Site Garage (*www.website-garage.com*) for the online equivalent of a tune-up.

According to AtWeb CEO Gautam Godhwani, a visit to the site helps find and fix your site's weaknesses. The solutions offered are painless to use. At press time, the site offered 13 site-optimizing utilities; you could use eight of them for free, and none required installation. By the time you read this, Godhwani hopes to have 30 utilities in Web Site Garage's toolkit.

One of the most popular freebies is GIF Lube, a compression utility that shrinks image sizes to help cut page-download time. Using GIF Lube is as easy as typing in the URL of an image, selecting the file type you need (JPEG or GIF), and pressing the Start button. Web Site Garage then displays a table of different versions of the image, indicating the number of colors and byte size of each.

While some utilities—such as Dead Link Check, Load Time Check, and Spell Check—aim to make your site more efficient, others focus on increasing traffic to your new and improved site. Register It sends your URL and site information to 16 search engines and directories, including Excite and InfoSeek, saving you the trouble of registering with each individually. For $39.99, Register It Plus will register your site with 100 engines, including Yahoo, AltaVista, and Lycos.

For Webmasters who think their sites need a total overhaul, the Web Site Garage's mechanics also offer complete tune-up and site-promotion packages. Best of all, they won't leave oily fingerprints all over the hood.

—Hannah Kate Kinnersley

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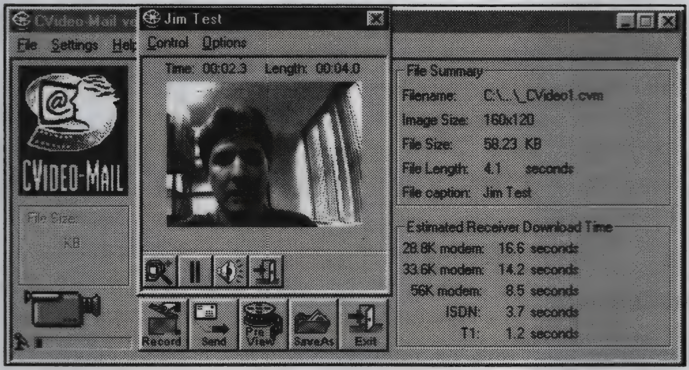
Stop by AtWeb's Web Site Garage and get a tune-up. A growing selection of optimization and promotional tools are on hand to improve your Web site's performance.

VCR-like controls to record video or audio-only files and easily preview them before sending.

VideoLink was similarly easy to use, though its settings aren't as sophisticated as CVideo-Mail's. For instance, unlike VideoLink, which asks you to set the data rate of the file in Kbps, CVideo-Mail has handy plain-English settings that let you set data rates in the simpler terms of file size per minute (500K, 1MB, or 2MB). You can watch the file grow as you record, and you can tell the software to cut you short when you reach your specified maximum. At 1MB/minute, I was able to create 160x120-pixel clips at 15 frames per second (fps) with reasonable lip-sync action.



Time: 00:02.3 Length: 00:04.0

File Summary
Filename: C:\..._CVideo1.cvm
Image Size: 160x120
File Size: 58.23 KB
File Length: 4.1 seconds
File caption: Jim Test

Estimated Receiver Download Time
28.8K modem: 16.6 seconds
33.6K modem: 14.2 seconds
56K modem: 8.5 seconds
ISDN: 3.7 seconds
T1: 1.2 seconds

CVideo-Mail's VCR-style controls and plain-English settings make it easy to capture video clips and attach them to your e-mail messages.

On the other hand, VideoLink offers a fixed 160x120 resolution and no frame-rate setting. When calculating file size, figure on another 80K or so for the player if you choose to include it; CVideo-Mail gives you the option of mailing the player separately so that future mailings require the video clip alone. CineMail, a $30 software-only package from Baraka IntraCom, offers multiple window sizes but expresses compression in confusing bytes-per-second terms.

The programs' e-mail integration features could be smoother, however. If you use Qualcomm's Eudora, you can access CVideo-Mail directly during the file-attachment process. Otherwise, you need a MAPI-compliant mail client such as Microsoft Outlook 97 if you want the program to automatically embed the file in an outgoing message with a click of the Send button.

AOL and CompuServe users must attach the file manually, and I was unable to get my Microsoft Network-branded version of Outlook Express set up correctly for MAPI. In the end, I found myself longing for a simple thumbnail gallery from which I could drag and drop clips rather than having to hunt through the file system. (CineMail's drag-and-drop capable file-list window is the next best thing.)

A related snag that caught me a few times was that CVideo-Mail's VCR-style Save button doesn't automatically include the player in the package, forcing you to go to the Save As Package option in the File menu or risk sending out files that your recipients won't be able to play. Cubic says that version 2.0, which should be out by the time you read this, will put this feature on the button bar.

Meanwhile, since ISPs have some of the same concerns about mail traffic as corporate network managers, ImageMind Software hopes its server-based Video Express Mail (VEMail) solution will become an attractive alternative to sending attachments. VEMail puts the brunt of the file-size burden on the sender, who uses the software to import or capture video, compress it to a data rate that matches the recipients' Net connection speed (say, 28.8Kbps), then upload it to ImageMind's server.

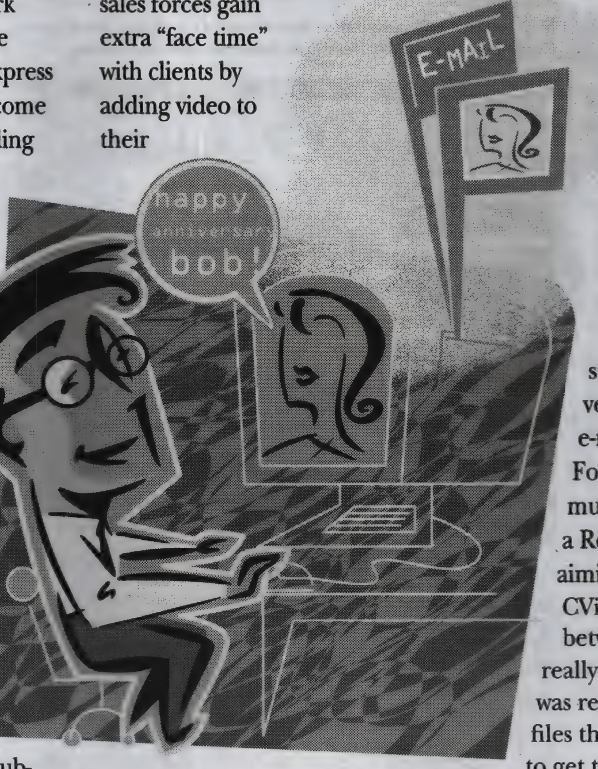
The server sends e-mail to the designated recipient with embedded links that initiate real-time video streams from the server, rather than lengthy downloads. (Vivo's MessageExpress and RealNetworks' RealPublisher offer options for publishing streaming video to personal Web pages.) The trade-off is that recipients with slow Net connections are forced to view lower-quality clips.

ImageMind's president John Cruz says the company is creating a server product that ISPs or companies can use to set up their own VEMail offerings; he says that agreements with national ISPs are pending, but he declined to name particular partners at press time. The company will probably start charging a monthly fee in the $10 range for use of its own server.

INSTANT RECOGNITION

It wasn't until I sent a CVideo-Mail message off to my wife, who was entertaining her visiting parents, that I realized how powerful video messages could be. The positive reaction from everyone was immediate. Ozer says he recently found the same thing when he sent a 30-second clip of his wife and newborn daughter to hundreds of colleagues.

Video e-mail companies such as Cubic believe the same emotional charge can be useful for business users. They propose that executives send inspirational messages to the troops, busy sales forces gain extra "face time" with clients by adding video to their correspondence, and support reps send warm-and-fuzzy thank-you videos to customers after each call.



As much as I agree that video e-mail is a nice touch in such circumstances, it's going to be years before most organizations see it as a necessity. Until then, the real appeal of these products is their fun factor. Says Mark Hardie, senior analyst at Forrester Research: "A lot of interpersonal communication is about entertainment, and video is taking e-mail places it hasn't gone in that respect."

To make video e-mail appealing for enthusiasts, most of whom either already own or are inclined to buy a more comprehensive video-capture solution, better image quality and more interoperability with a variety of hardware and file formats is needed. For instance, VideoLink and VEMail work with different cameras and capture cards, but CVideo-Mail and Zap Mail are tied to the video-capture cards included in their respective bundles.

Smoother integration with standard video-editing software may well become important to home users who would rather cut some clips together than try to get their families arranged in front of the PC or camcorder for a seamless shoot. Today, VEMail goes pretty far with its import capabilities, enabling you to bring in ASF, AVI, and QuickTime files as well as PowerPoint presentations and WAV files. VideoLink imports AVI, and Cubic says that CVideo-Mail 2.0 will include the ability to import AVI files and record audio over still images.

But pickier users may still prefer the streaming vendors' offerings over these e-mail compression schemes. For instance, Ozer chose the multistep process of encoding a RealVideo clip rather than aiming and shooting with CVideo-Mail. "I was caught between a solution that looked really good, and a solution that was really simple but required files that were three times as large to get the same quality," he says.

Until these issues are resolved, video e-mail remains a convenient, relatively cheap means to punch up electronic communications for the few who get hooked—not that it's going to make network managers happy any time soon. ▼

COLUMN

SITE BUILDING

Microsoft's Site Server tackles knowledge management and commerce.

BY DAVID S. LINTHICUM ~ LINTHICUM@WORLD-NET.ATT.NET

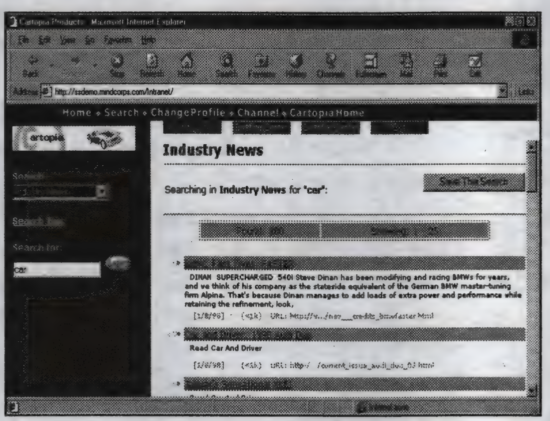
Writing this column has done wonders for my e-mail in-box; not only do readers send me their comments about past columns, but I get a lot of requests for insights into new and emerging products. On that score, the product about which I receive the most inquiries by far is Microsoft Corp.'s Site Server.

Even though release 3.0 of Site Server is still in late beta as I write, the product is setting the Web world on fire because it's able to do so many things—some of them, such as one version's ability to function as both a knowledge server and a commerce server, are unprecedented. This month, we'll explore just how valuable Redmond's jack-of-all-trades might be for your business.

There are two versions of Site Server 3.0. The basic package is a Web-server product for Windows NT that adds value to Microsoft Internet Information Server (IIS) by extending its core set of features and interfaces.

Site Server includes publish, delivery, and analysis subsystems. The publish subsystem gives site builders the ability to create and manage content. The delivery subsystem lets them gather knowledge from a variety of sources and deliver that information to the right users at the right time. And the analysis subsystem lets Webmasters measure and display key site-effectiveness indicators such as site usage.

The other version, Site Server Commerce Edition, does everything Site Server does and then some. It adds support for commerce features, such as the ability to create commerce sites and applications, facilitating online advertising, marketing, and promotions. In addition to presenting their products, site masters can peddle them to users via a commerce-transaction feature, which includes a secure order-capture and -management subsystem. The server components are tied together through an analysis feature, which provides information pertaining to purchasing activities by user, site, product, time, and so on.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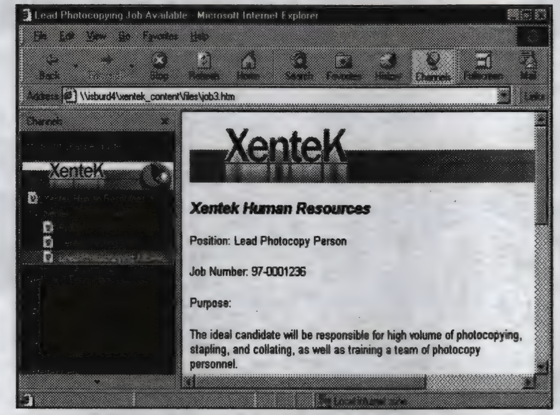
Read Car And Driver

Site Server 3.0's search engine provides a single interface from which to search multiple information resources.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Xentek Human Resources

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Job Number: 97-0001236

Purpose:

The ideal candidate will be responsible for high volume of photocopying, stapling, and collating, as well as training a team of photocopy personnel.

The push features let site builders create and manage channels that deliver customized information to users.

After spending some time with the beta, I think Site Server 3.0 promises to be a product that competitors will find hard to beat considering its feature set and price ($1,499 list; $4,999 for Commerce Edition). Among its most exciting new features, I'd single out its knowledge management, publishing capabilities, and support for business-to-business commerce and advertising.

KNOWLEDGE MANAGEMENT

Knowledge management (KM) is a new Big Six consulting term that refers to management of information within an organization, typically via the Web. At its core, knowledge management is the process of gathering an organization's collective expertise wherever it may reside in an organization. Examples of KM resources include site content, databases, local and remote files, online discussions, and documents.

Site Server 3.0 comes complete with a KM package offering features such as search and push capabilities, personalization and membership features, and of course, a central Knowledge Manager module. Though most KM aficionados would not consider Site Server a full-blown KM package like 2Bridge Software's 2Bridge server, which costs an enterprise tens of thousands of dollars, it'll be quite sufficient for many smaller organizations.

The search engine supplied with Site Server 3.0 provides users with a single interface from which to find knowledge—which is "meta data," information from many sources. You can find pertinent information regardless of where and in what format it exists (whether it's in a database, Web page, document, or whatever).

The engine functions like a traditional content search engine, and a site-builder feature performs some slick administrative functions such as building a catalog of available resources to be searched, building a search page for users, and incorporating searching as part of a broader KM solution.

The push feature, as you might imagine, provides site builders with the ability to create and manage channels to deliver specific information to the users who ask for it. The feature gathers content from any number of sources, ranging from e-mail to databases and discussions, and sends it directly to subscribers.

The Site Server 3.0 push engine incorporates two new pieces of Microsoft technology: the Active Channel Server and the Active Channel Multicaster. The former enables administrators to create, manage, and deliver Channel Definition Format (CDF) files that are able to define the structure and update frequency of a channel. The latter allows organizations to get the most from an intranet's bandwidth by using multicast technology to deliver information users' desktops.

The personalization and membership features are big selling points as far as I'm concerned. This technology lets site builders personalize content for specific users and secure content based on membership or access rights. For example, users identified as being from the accounting department can receive only information pertinent to their division. Since in some instances you may not want certain information made available to the Internet masses, the secure membership system can help ensure that sensitive data does not fall into the wrong hands.

There are several other key mechanisms for site builders to exploit, including direct-mail, personalized-content, and members-only areas. The direct-mail system delivers personalized content to site visitors via e-mail using a schedule defined by the site builder. The personalized-content mechanism serves up Web pages that reflect what the system knows about a specific user. Membership areas provide authorized users with access to specific restricted areas on the site, based on their profiles.

The Knowledge Manager module delivers several features, including the ability to search an organization's accumulated digital information resources by simply entering a word or phrase, and to browse categories of information (both locally and on the Net at large) much like traditional search engines such as Yahoo. What's more, the Knowledge Manager allows site users to view personal knowledge briefs so they can stay up-to-date on any number of topics. Users can even create shared briefs that others in the organization can use.

PUBLISHING

Site Server's publishing subsystem lets site builders create, approve, and deploy new content. Its content-management and content-deployment features employ a four-step process: submit, tag, approve, and deploy.

After creating content, the author submits, edits, or deletes it; a manager can tag the content for approval and submission. For security's sake, the standard NT permissioning system can be used to establish rules governing who may see the content.

Tagging refers to the ability of content authors to apply attributes such as default fields for author, owner, and status. The site builder can define additional attributes and content types, as well as define approval settings for content types and filtering and deleting documents. The editor can view, edit, and apply document properties at any time. Finally, the site builder can perform a trial run by placing content for review on a staging server before deploying it to the Web server for more public viewing.

BUSINESS-TO-BUSINESS COMMERCE

While earlier releases of both Commerce Server and Site Server Commerce Edition supported business-to-consumer selling, Site Server 3.0 supports business-to-business e-commerce. This is a big draw, since it offers a great deal of value for businesses looking to connect both their suppliers and customers electronically.

For example, instead of having to print up purchase orders to obtain materials for building a motorcycle, a cycle manufacturer could simply access a supplier's Web site and enter the order electronically. The difference is that it will now take minutes rather than days for transactions to occur. Depending on the scope of the business, this could generate millions of additional dollars in revenue over a year's time.

Building on the offerings that Site Server's business-to-consumer features provide, the business-to-business features add authentication and secure login, enabling a site to check credit limits and verify purchasing authority. In addition, Webmasters will be able to create customized catalogs (based, if they like, on ready-made templates), used when different customers log in to the server. Products and services can be paid for with open purchase order or procurement cards; there is also a mechanism to check the status of an order and the availability of inventory.

Microsoft's Site Server works with several external systems including ERP applications such as SAP R/3, PeopleSoft, and Oracle Financials. What's more, Site Server can leverage traditional electronic commerce standards such as the Electronic Data Interchange (EDI) messaging standard for sending orders and payment electronically to various systems.

ADVERTISING

Another new feature set found in the commerce-oriented version of Site Server will make it easier to advertise effectively, whether you're trying to sell an outdoor grill or tickets to the company picnic. Specifically, the product's Ad Server facilitates management of online ad campaigns, scheduling, and reporting. For instance, you can create an ad campaign, execute it, and then get feedback on how effective it was at selling a particular product or service.

Using Ad Server, site creators can sell via ad requests or "clicks" and can target ads, specifying when they appear based on time and day of the week by passing HTML tags or Active Server Page (ASP) scripts to the Ad Server. The Ad Server is built using ASPs, so you can script your way to making it do even more of your bidding, such as targeting ads based on user buying patterns.

What does Site Server 3.0 mean to you? That really depends on your requirements. If you're looking to serve up simple content, then any traditional Web server will do, using any number of content-management tools.

What Site Server brings to the party is a rich set of subsystems, such as the KM and commerce components, which save Webmasters from having to construct such capabilities from scratch. It also provides an integrated solution, binding several key Web-enabled technologies into one monolithic package.

If you had to purchase all of these features from other vendors, it would cost you many times Site Server's price, and chances are that the components would not work and play well together without a lot of integration. It looks as if Microsoft may have taken another high-end product set and turned it into a commodity. ▼

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COLUMN

SHAREWARE SHOP

Useful utilities spruce up your desktop.

BY DAVID ENGLISH ~ SHAREWARE@DAVIDENGLISH.COM

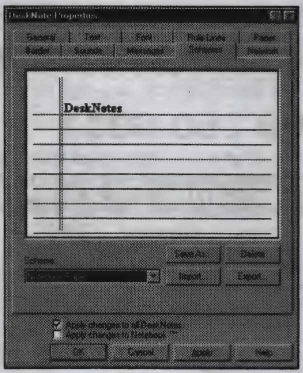
You probably spend countless hours each month staring at your Windows 95 desktop. Occasionally, you move a few icons, but otherwise, your screen looks pretty much the same day in, day out. Now that spring is here, why not do a little more than just move the furniture around? It's time to take control of your desktop and make it more efficient and usable.

Old habits die hard, you say? That's why shareware programs are the perfect solution for the desktop blahs. These programs let you try before you buy, so you can experiment with new desktop configurations before making a commitment. They're desktop enhancements that can be reversed at a moment's notice—or at least in the amount of time it takes to uninstall a program.

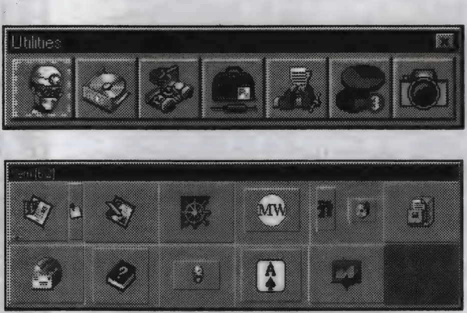
Each of the five shareware utilities we've selected this month provides a feature you'll wish Windows 95 had to begin with. Ted Mastrandonas's DeskNotes 1.0 calls up customized sticky notes you can use for reminders, phone messages, or whatever. Silent Software's Toolbar 95 1.1 lets you place as many as 10 toolbar menus on your desktop, each containing icon buttons for as many as 256 applications.

One Guy Coding's Vern 1.7 adds multiple desktops to your system, letting you quickly switch between applications without cluttering your screen. Think of Mark Rentz's WinShade for Windows 95 2.1 as a whole new approach to managing overlapping windows, Venetian-blind-style. And consider Arcata Pet Software's WWPlus32 3.2 the ultimate Windows wallpaper organizer—it helps you create wallpaper collections you can change automatically or manually.

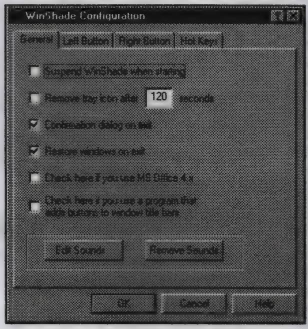
You can download these programs from *Computer Shopper*'s Web site (*www.cshopper.com*) or from the magazine's forum on ZDNet/CompuServe (*Go ZNT:COMPSHOP;* see Library 11, Shareware Shop). For filenames and other details, see the information box.



☑ Apply changes to all DeskNotes
☐ Apply changes to Notebook

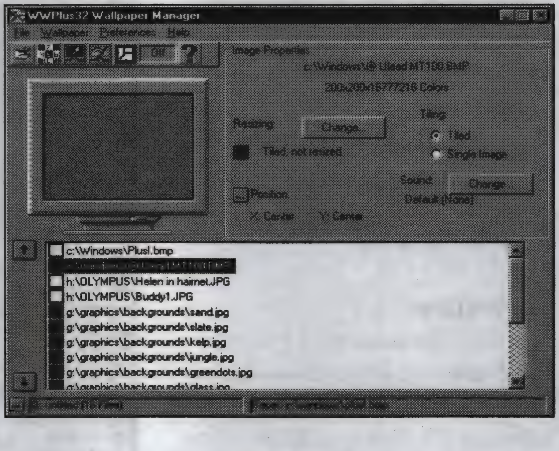


Left: DeskNotes' customizable sticky notes. Above: Toolbar 95's application button bar and Vern's multiple-desktop control panel.



☐ Suspend WinShade when starting
☐ Remove tray icon after 120 seconds
☑ Confirmation dialog on exit
☑ Restore windows on exit
☐ Check here if you use MS Office 4.x
☐ Check here if you use a program that adds buttons to window title bars

Above: WinShade's program roll-up options. Right: WWPlus32's wallpaper selector and scrapbook.



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Tiled, not resized
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Default (None)
X: Center
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g:\graphics\backgrounds\slate.jpg
g:\graphics\backgrounds\kelp.jpg
g:\graphics\backgrounds\jungle.jpg
g:\graphics\backgrounds\greendots.jpg
g:\graphics\backgrounds\glass.jpg

DESKNOTES 1.0

Walk around any office, and you'll see yellow sticky notes attached to walls, phones, and lamps, not to mention monitors. Why? It's so easy to transfer something to a piece of paper and no longer have to memorize it. But why place sticky notes on your real desk when you can put electronic ones on your PC desktop?

With DeskNotes, you can create electronic sticky notes in just about any size, shape, or color. The program has so many options that it can be a bit overwhelming at first. You can choose typefaces in varying sizes, styles, and colors, and apply the options to a single note or all notes.

Other sticky-note programs let you adjust only the note's size. DeskNotes lets you adjust the margins on each of its four sides; choose a BMP graphic for its background (some excellent ones are included); and select from a variety of pad styles, including notepad, two- and three-ring binders, and top punch.

How about a typewriter sound to accompany your note writing or a ripping sound to enhance your note tearing? Choose among border styles, pen styles, line styles, line colors, border colors—in fact, you can spend so much time customizing your notes, you'll forget what it was you wanted to jot down.

All these options are hidden behind menus, so you can simply stick with the defaults, or change a few parameters and never mess with the menus again. The program itself is easy to use. Click on the DeskNotes icon in the system tray, and DeskNotes will create a blank note. Move it, stretch it, and write on it, and it will remember your changes after rebooting. Right-click on a note, and you can copy, cut, paste, or delete it. You can even perform a text search throughout your notes. If real sticky notes were this intelligent, we wouldn't have to spend so much time with our PCs.

You can try out DeskNotes free for 30 days. After that, you'll need to pay $24.95 to register the product.

TOOLBAR 95 1.1

If your desktop looks cluttered, it may be time to reorganize your icons and folders. One solution is to take your favorite applications' icons and place them on toolbars, which you can organize by category. For instance, you can place your word processor and associated files on one toolbar, your spreadsheet program and worksheet files on another, and your Internet-related programs on a third.

How do you get started? Try Toolbar 95. It allows as many as 10 toolbars onscreen at a time and lets you place as many as 256 icon buttons on each. To add icons to a toolbar, you simply drag icons, folders, or files from the desktop or from Windows Explorer. You can also drag icons within a toolbar or between toolbars. Place the toolbars anywhere onscreen, and they'll be there when you reboot.

Need more options? Toolbars can be horizontal or vertical, freely floating or docked into a corner of the screen, and always visible as the top window or treated just like any other window. You can even customize a toolbar's shape by specifying a fixed number of rows or columns. Each toolbar can have its own title; although the individual icons on the toolbar lack titles, their names appear if you rest the cursor on the icon for a second or two.

You can control many of the program's global functions from its own icon in the system tray. One of the most useful commands is a toggle switch that alternately hides and shows the toolbars, letting you temporarily remove all open toolbars without having to exit the program.

Toolbar 95's best feature, however, is its price. The program is free, so you have absolutely no excuse for not giving this handy utility a try.

VERN 1.7

If you like to have a lot of programs open on your desktop, but don't have enough screen real estate for them, check out Vern. Its name is actually an acronym for Virtual Environment Resource Navigator, and it creates and manages virtual desktops for your active applications. Each virtual desktop occupies your entire screen and contains your usual program icons, taskbar, and Start menu, as well as the applications you choose to run on that desktop.

Sound complicated? It really isn't. Vern starts by showing a toolbar with buttons that represent four virtual desktops. Click one of the toolbar buttons and load a program, and the program runs on that virtual desktop. Click on another button, load another program, and so on. To have two or more programs operating side by side, simply open them on the same desktop.

You can set up separate desktops for your word processor, spreadsheet, browser, and utilities. Once you get used to working with multiple desktops, you'll be switching back and forth without giving it a second thought.

Vern lets you switch between desktops in a variety of ways. You can click on the toolbar buttons, click on the individual icons on the Windows taskbar, type Alt-Tab to tab through the program icons, use hotkeys to launch an application, or nudge your mouse against the edge of one desktop to move to the next one.

You can also swap programs between desktops by moving icons around the toolbar, set priority levels for individual programs so they don't hog the processor when they're not being used, and create blank desktops by clicking and dragging the toolbar.

Vern is free for 30 days. After that, you're required to pay a $20 registration fee, which also registers you for any other shareware developed by the same programmer.

PRODUCT LISTING

DeskNotes 1.0
Ted Mastrandonas
www.mindspring.com/~tmastran
Filename: dsknot.zip
Registration Fee: $24.95

Toolbar 95 1.1
Silent Software
sharris@netcentral.co.uk
Filename: toolbr.zip
Registration Fee: Free

Vern 1.7
One Guy Coding
www.cam.org/~oneguy/vern95
Filename: vern17.exe
Registration Fee: $20

WinShade for Windows 95 2.1
Mark Rentz
www.bluecarpet.com
Filename: wshade.zip
Registration Fee: $10

WWPlus32 3.2
Arcata Pet Software
www.arcatapet.com
Filename: wwpl32.zip
Registration Fee: $29.95

WINSHADE FOR WINDOWS 95 2.1

Every so often, someone invents a new way of doing things that makes you exclaim, "What a great idea!" If you're frustrated by overlapping windows on your desktop, one such invention is WinShade for Windows 95.

Here's how it works. Load an application and click the cursor on its title bar, and everything disappears except for the title bar—much like a Venetian blind. Click on the title bar again, and the application's window reappears. It may have been copied from the Mac OS, but this roll-up technique lets you quickly open and close multiple applications whenever you like. It's faster than working with the Alt-Tab command, and easier than minimizing and maximizing individual windows.

You can also customize the four command functions performed when you single-click or double-click on a title bar with either the left or right mouse button. You can assign such actions as rolling up or unrolling a window, sending a window to the top or bottom of the stack, and maximizing or minimizing it. Other options include associating sounds with various program functions, creating roll-up and unroll hotkeys, and resolving conflicts with other applications by requiring the Shift key for WinShade shortcuts.

If you have a high-resolution monitor with lots of desktop real estate, you may not need to manage overlapping windows. But if you have a notebook PC or low- to medium-resolution display, WinShade can open up new opportunities for running multiple applications.

WinShade is free to use for one week, though it remains fully functional after that time. The registration fee is a modest $10, which is a bargain considering you may end up using it hundreds of times a day.

WWPLUS32 3.2

What do you do to give a room a new look? Change the wallpaper. What do you do to give your computer desktop a new look? That's right—change the wallpaper.

Of course, you can use Windows' Control Panel to swap out one wallpaper graphic for another, assuming it's a BMP file. However, only a dedicated wallpaper utility such as WWPlus32 can automatically change the wallpaper at timed intervals, use almost any graphics file format with no need to convert files to BMP images, handle multiple wallpaper sets, and precisely position oversize graphics onto your screen. In a world of minimum-wage wallpaper installers, WWPlus32 is a master craftsperson. It knows wallpaper backward and forward.

In addition to letting you fine-tune the screen position rather than simply centering oversize graphics files, WWPlus32 can automatically stretch smaller graphics to fit the screen, with an option to retain image proportion or aspect ratio. It can also automatically reduce an image's color palette from 16.8 million to 256 colors, or from 256 to 16.

Supported file formats include BMP, GIF, ICO, JPEG, PCX, PNG, RLE, TGA, and TIF. The graphics files don't have to be in the same directory, so you can use any graphics file on your hard drive. Compressed files—such as GIF, JPEG, and PNG files—are loaded in the background, guaranteeing a smooth progression even when combining different file formats.

You can display your wallpaper files in either sequential or random order, and link a different WAV file to each graphic. Four system-tray icons let you turn the wallpaper timer on or off, change the wallpaper manually, clear the screen, and turn your screen saver on or off.

The program's $29.95 registration fee includes registration for WWSaver32, a screen-saver program that can share WWPlus32's wallpaper sets. ▼

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FEATURE

MAKE YOUR WEB SITE MEAN BUSINESS

Leveraging The Net to Build Brand Recognition and Boost Profits

BY RIVKA TADJER

If you're a business manager who thinks of your company's Web site as the responsibility of the IT department, think again. These days, the Web is one of your most important marketing tools—a medium that you use not only to offer products and services, but also to develop brand recognition.

Done right, Web-based marketing lets a business of any size, from a famed Fortune 500 leader to a small start-up, establish the kind of instantaneous recognition within its target audience that, for example, Amazon.com enjoys with online book shoppers.

But if the worst mistake you can make is to build a site with input only from HTML experts rather than include your marketing department, the next worst is to think: "If you build it, customers will come."

"It is not enough by a long shot to put up a Web site and decide you're open for business," says Paul Morin, director of the Small Business Development Center at the University of Pennsylvania's Wharton School of Business. According to Morin, too many firms create Web sites, equip them with secure credit-card transaction capability, and then wonder why customers don't magically appear.

"Taking the Web seriously can be profitable, and more cost-effective in some cases than TV, radio, or print," he says. "But companies still must have an overall approach to building brand name, [and] you must build a brand name by advertising to become noticed in the Web distribution channel.

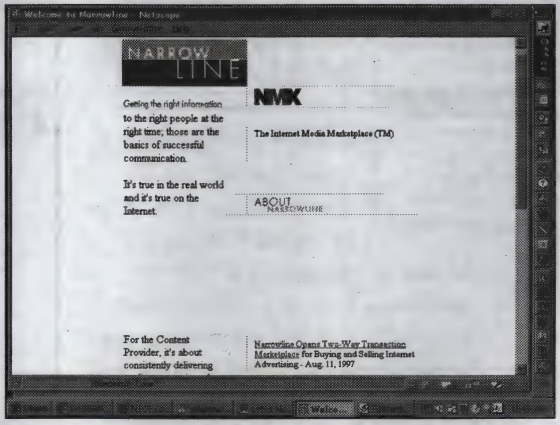
"The Web is only a good point of sale if customers come and become interactively involved with the company. Tracking the people who accidentally surf to your site for curiosity's sake is not going to drum up attention or business."

Morin says advertising for any company today means a multipronged attack, using what Madison Avenue ad gurus until recently called the "Big Three"—TV, radio, and print—but now call the "Big Four" with the addition of the Web. And the last is often the most affordable way for many smaller businesses to obtain market exposure, a new point of sale, or both.

The best way to do that, regardless of your company's size, is by leveraging the medium's most powerful attribute—its ability to provide interactive involvement with clients. On the Web, a user can select the ad that he or she reads, receive targeted information based on surfing patterns, or send e-mail to (or with the right browser plug-ins, even speak to) tech support staff before buying.

"Interacting with consumers as much as you can is key, simply because the medium allows it, and because it is rare in advertising to have a point of sale with such an opportunity for company-consumer interaction," says Morin.

Indeed, it's hard to think of interactive, point-of-sale advertising opportunities outside the Web, except perhaps for cable TV's shopping channels and K-Mart's in-store announcements (Attention shoppers! Blue-light special in Aisle 6!). And what distinguishes the Web from these is that it lets consumers click away, seeking and finding the particular information they want, if businesses design their sites properly.



Getting the right information to the right people at the right time; those are the basics of successful communication.

It's true in the real world and it's true on the Internet.

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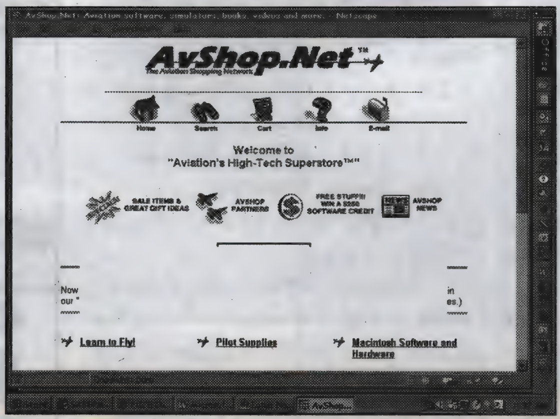
Narrowline Opens Two-Way Transaction Marketplace for Buying and Selling Internet Advertising - Aug. 11, 1997

Ad-server companies build businesses' name recognition by placing banner ads on appropriate sites for a fee.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Welcome to "Aviation's High-Tech Superstore™"

The owner of this small Web-based catalog scrutinizes where he places ads, as well as the returns on those ads.

Remember, says Morin, the interactive capabilities of the Web—as seen in an online music store that runs a contest to give away free discs or lets customers play songs before buying CDs—are what keep customers coming back. Interactivity is what makes a site worth bookmarking, and perhaps ultimately what makes a household name of a brand.

But first, you must get the customers there; you must accomplish the daunting task of making your Web site stand out somehow among the thousands out there. You need to get the word out—advertise.

WHO'S OUT THERE?

As you create an advertising strategy for the Web, keep in mind that the medium is currently most effective at reaching males aged 15 to 30, and to a lesser degree aged 30 to 40.

"These are the people using the Net all the time," Morin says. "And while there are an increasing number of women, [you should] target your mass-consumer interactive ad campaigns to get as many of [the dominant] demographic profile involved with your company as possible."

There are some exceptions, of course, for businesses that target other niches, such as women's magazines, but the key goal is similar: to identify and establish a presence in the

Web communities that your target audience populates.

Once beyond the demographic issues, how does an advertising novice get started or even know what's affordable? A good place to start is by understanding who the players are.

From multimillion-dollar Web campaigns all the way down to bare-bones, makeshift approaches, the industry of marketing and advertising on the Web is gaining momentum. In fact, the New York-based market-research firm Jupiter Communications projects that total online advertising will grow from $301 million in 1996 to $7.7 billion in 2002, with online direct-marketing revenue climbing from $13 million to $1.3 billion over the same time span.

This means that a lot of new products, services, and comarketing schemes have popped up from the supply side in the past year—publishers of Web-community sites, ad-server companies, and related software and hardware vendors. An ad-server company is a third party such as Narrowline Software (*www.narrowline.com*) that takes a business's banner ad and distributes it to appropriate sites for a fee.

Which of these suppliers or subcontractors you choose, and the exact architecture of your advertising campaign, will depend on the money you have to spend and the nature of your business. Still, it's useful to explore what other online advertisers in your budget range—and even in other ranges—are doing, to get some perspective and ideas. Here's a look at the approaches available to Web merchants in three budget sizes: seven figures, five to six figures, and zero to four figures.

THE ARISTOCRATS OF WEB ADVERTISING

America Online, with its 8-million-and-growing subscriber base—called a "captive audience" in advertising lingo—represents the state of the art when it comes to what's available for creating ad campaigns and building brand recognition on the Web. It's a booming community site.

The service has created a broad community of general-interest consumers unmatched anywhere else on the Web. And more than 400 companies-turned-Web-merchants so far are paying up to tens of millions of dollars for what AOL officials call "comarketing agreements"—the highest-end category of Web advertising.

A prime example: 1-800-Flowers reportedly cut a deal for $25 million with America Online last year. What did that buy the Westbury, N.Y.-based florist? A four-year contract as the only florist on AOL's popular Shopping Channel. That means when any Netizen surfs to AOL and clicks on the Shopping Channel, a large banner ad and linking icon to 1-800-Flowers will appear. No other florist has a listing.

While some analysts have criticized AOL's high price tag for such agreements (and the service's lack of standardized pricing schemes for them, which its officials admit are "decided on a case-by-case basis"), 1-800-Flowers doesn't care: The florist says it will make its investment back within the first year.

Donna Iucolona, director of the interactive services division of 1-800-Flowers, says its AOL appearance accomplishes all the key goals of advertising: repeated presence to consumers, exclusive brand name, and a captive audience to which it can pitch special offers.

Other big-scale community hosts trying to build the same kind of captive audience and offer comarketing deals are Yahoo and the Microsoft Network. Neither, however, has come close to the audience numbers AOL has. The Microsoft Network has reportedly given some big brand names, such as Dow Jones, comarketing deals for free.

> *Regardless of size and budget, to create a virtual community, businesses have to pick the right referral sites.*

If you're a big company, particularly one that already enjoys some name recognition, you're a natural for a comarketing agreement with a large Web community. "These relationships can be quite valuable—like a good referral system," says Morin.

According to Morin, while these synergistic relationships tend to occur among the best-known Web merchants and those that spend millions on advertising, smaller companies can pursue the same strategy to try to build brand name with others.

"It doesn't have to cost a lot—that's up to the merchants. They can link to one another and sport banner ads of one another on their Web sites," Morin explains. "But if the two companies are still unknown, be aware that other advertising will be necessary."

The reason even synergistic relationships can be expensive is that identifying the right partners isn't always easy; what will work isn't always obvious. David Lewis, director of marketing at the Alameda, Calif.-based hardware and software vendor Farallon Communications, says he spent about $10,000 to find out with whom he should make comarketing deals.

The $10,000 bought him a one-server, two-domain package of Accrue Software's Collector, a Web-tracking program that tells him not only which icons people are clicking on Farallon's Web site, but the online paths they took to get there. The URL from which someone jumped to your site is called a "refer" in Web-tracking lexicon. Collector works by listening to packets on the network, checking headers and footers, and putting server-surfer-interaction data into a categorized database.

In Lewis' case, he noticed a lot of people linking from a Macintosh site that had apparently written a positive review about a Farallon product. "I called them up and created a solid comarketing deal—links, banner ads, some content swaps," he says. " I would have never known to call them up without looking at the refers."

Realistically, a company that can afford Web-tracking software is one that has a hefty ad budget to begin with. Iucolona from 1-800-Flowers argues that smaller companies should focus on polishing their own Web sites and sending push content to targeted consumer groups, rather than trying to spread themselves thin with banner ads or comarketing deals on megasites such as AOL or Yahoo.

According to Iucolona, since consumers are getting used to navi-

ILLUSTRATION BY MATT FOSTER

Make Your Web Site Mean Business

gating the Web by themselves using search engines, they don't need to go to communities first. "Besides, push technology is getting better all the time," she adds. "That means you can target your customers directly in their e-mail inboxes without paying a big Web community to reach them."

Also, some analysts warn against putting too much emphasis on a single site. John Hearn, the interactive-marketing director for consultancy at the Stamford, Conn., market-research firm The Gartner Group, notes that "1-800-Flowers already has a brand name, that's why it works [for them]. For businesses without household-word-level brand name, exposure in communities is important."

But the types and sizes of community sites targeted by middle-tier companies will likely be different than those chosen by the biggest advertisers.

WEB ADVERTISING FOR THE MIDDLE CLASS

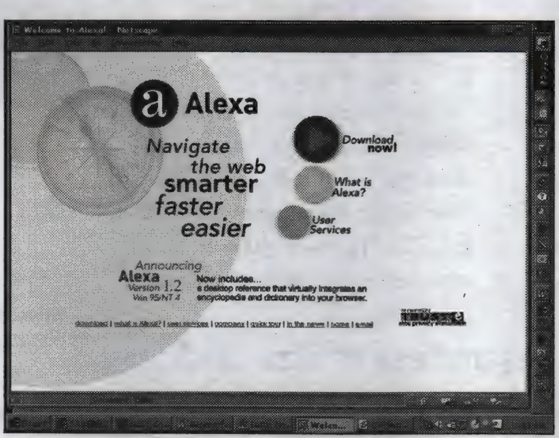
For smaller companies with smaller ad budgets (annual spending of less than $1 million total for TV, radio, print, and Web exposure), one of the best advertising tools available is an ad banner placed on an intelligently chosen community site.

Where a giant community site like AOL binds together hundreds of interest-based virtual communities, medium-size advertisers may be better able to afford a smaller community site or one that addresses more-focused themes. An example for firms marketing to women might be iVillage: The Women's Network (*www.ivillage.com*), a site hosting everything from forums on women's health and careers to sections for parenting and shopping.

Banner advertising on popular communities is in fact the most common method of advertising on the Web. You can think of leveraging or piggybacking on a name that's known to your target audience—such as Yahoo—as the advertising version of social climbing, or branding up.

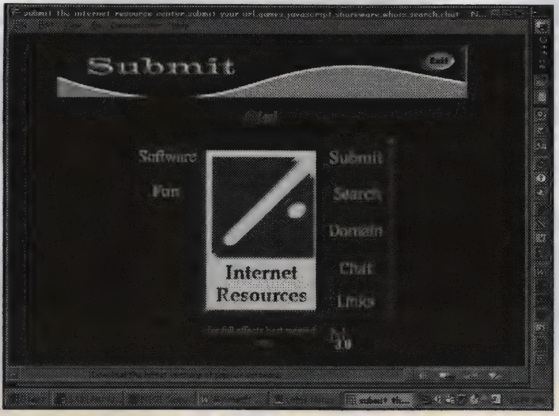
Thomas Quarton, president and chief operating officer of Cirque Corp. (*www.cirque.com*), is all for it. "If you can't afford $20 million for an exclusive with AOL," he says, "you can get a lot of good return on investment for banner ads, which on the really popular sites run about $15,000 per quarter."

Banner advertisements on computer-related Web communities such as ZDNet (*www.zdnet.com*, the hub of *Computer Shopper*'s parent company Ziff-Davis) are central to Cirque's marketing campaign for its touch pads and other input devices, because Quarton says they target his audience in an efficient way. "We advertise in a bunch of the computer print magazines that Ziff publishes, such as *PC Magazine* and *FamilyPC*, but our banner ad on ZDNet reaches readers of all those magazines at once." Quarton also places a banner ad on the Yahoo search engine site to reach the less-tech-focused Netizens.


Welcome to Alexa! - Netscape
Alexa
Navigate the web smarter faster easier
Download now!
What is Alexa?
User Services
Announcing Alexa Version 1.2 Win 95/NT 4

Now includes... a desktop reference that virtually integrates an encyclopedia and dictionary into your browser.

Alexa is betting that a consistent look across its site, ads, and brochures will help build brand recognition.



An ultralow-budget or no-budget tactic is to use services like Submit to post your URL to major search engines.

Morin warns that companies should be careful when buying banner ads: "Generally, when you go for branding, go for the community with the largest target audience based on what you can afford." The trick, however, is to make sure you're not taken advantage of or being overcharged by one of the elite community sites, which Morin says "hold the cards because there are only so many [recognized community sites] on the Web, and they have a huge universe of small companies (would-be advertisers) to choose from."

Paying about $15,000 per quarter should be average for sites that yield tens of thousands of hits per day. Quarton and others suggest scrutinizing the return on a banner-ad investment carefully.

Of course, there are third-party companies, such as San Francisco's Narrowline, that are happy to do the scrutinizing and serve your banner ad to varied, appropriate communities for you. Narrowline founder Tara Lemmey says that what the company brings to the table is advanced research on which types of traffic specific communities attract, helping the firm target ad placements for its clients.

Marc Coan, principal of the Portland, Ore.-based Aviation Shopping Network (*www.avshop.com*), a Web-only catalog that sells goggles and other accessories for pilots, has a general rule of thumb: "If I spend $500 on an ad, I better get a return on that investment that month," he says.

That not only means a hard-dollar return—making back the $500—but getting some good traffic, which he admits is difficult to quantify. "Let's just say I want to spend 10 percent of my revenues on advertising, so I need to make the $500 back plus lure enough paying customers so that the total I'm spending remains at 10 percent," he says.

Coan runs banner ads on two weather-related Web sites, American Weather Concepts (*www.weatherconcepts.com*) and Aviation Weather dot Com (*aviationweather.com*), because he says pilots are habitual weather-watchers. Coan also cut a deal with CompuServe so that when users search for aviation equipment, they see *GO AVSHOP*. "I give CompuServe 10 percent of sales, no cash up front," he says. "No cash up front is the best kind of deal for me."

SHOESTRING BUDGETS: MONEY FOR NOTHING?

Perhaps what's most interesting about Coan's approach—and those of many online entrepreneurs like him—is what they manage to do without a fully defined advertising budget. Far from the seven-figure stratosphere of comarketing deals, or even midlevel banner-ad buys, Coan represents the underclass of the Web marketplace—folks caught in the classic catch-22: "We won't have any money to spend on Web advertising until we make money on the Web."

So how do such firms build brand recognition? They fake it until they can afford it.

First, few of them bother to hire expensive designers to create their banner ads, feeling that a little Java and a graphics software package can go a long way. Be aware, however, that some low-budget merchants are vehemently opposed to amateur ad design.

Bruce Gilliat, general manager of the San Francisco search-engine start-up Alexa Internet (*www.alexa.com*), says that so far, he's negotiated free swaps instead of paying to place banner ads, but he has spent nearly $20,000 for a designer. He wants to make sure that everything with the Alexa name on it—his Web site, banner ads, and brochures—has the same professional look. "That unified look is key to brand-name recognition," says Gilliat.

Whether they opt for professional or do-it-yourself graphic design, small businesses agree on the benefits of swapping banner ads. "We started our company and Web site last July," says Gilliat, "and even though we didn't have money for banner ads, we could swap ads with other companies on the barter system to create a virtual community."

Alexa, for instance, has swapped ads with iVillage: The Women's Network and the Williamston, Mass., Web developer Tripod (*www.tripod.com*). Likewise, Coan says he would happily swap ads with other weather sites or small-aircraft manufacturers such as Cessna. It's synergistic comarketing on a smaller scale.

Swapping ads instead of paying an ad-server company or community site teaches a lesson that any business with any size ad budget would do well to learn: To create a virtual community, you've got to pick the right referral sites.

"It's all about knowing your own mission cold, and then creating a clear vision of your customer," says Cirque's Quarton. He explains that ZDNet attracts lots of the male, 15- to 30-year-old PC hobbyists Cirque courts. "That core group—proven buyers of my product—are where I spend my money first. But I also advertise in *People* magazine and on Yahoo with a portion of my budget, because I want to expand my clientele as well."

Quarton's cautionary advice: Just don't spread yourself so thin so quickly that you neglect the core group of buyers currently keeping you in business. They're your first priority, and if budgets are tight, you must find the Web communities most compatible with them and with your mission.

Market analysts say advertising on the Web is all about negotiating—even to the point where you may be able to approach a heavyweight like AOL or CompuServe, as Coan did, for a percentage-of-sales-with-no-cash-up-front deal. The worst that can happen is that you get turned down.

Another ultralow-budget option—free in many cases—is to sign up with a company such as Submit (*www.submit.com*) that gives your URL to Yahoo, AltaVista, and other popular search engines and community sites.

Robert Cox, president of Mobile Word Communications LLC (*www.mobileword.com*), a Web-based secretarial service, used Submit as the primary means of getting his name out. "I've made $100,000 since June '97," he says. "Submitting my URL to search engines was useful because for no investment, I get some traffic, and I can learn in the process where people surf from."

One last tip from Quarton: "If a business can only afford to do one brand-building program, demonstrating the prowess of a product or service at the point of sale is the way to go." In other words, if your product or service can be demonstrated and sold on the Internet, you'll find Netizens a curious and willing universe of prospects who can tell you more about what they think than the viewers of a commercial or readers of a magazine ad can.

Stage a contest, Quarton suggests; people will fill out registration forms honestly if there's a prize at stake, and those forms can be a trove of information—even more valuable than an expensive Web-tracking software system.

In the end, says Morin, advertising on the Web for most businesses is about finding the right community sites with which to foster relationships. Everything after striking some kind of deal with those communities—whether designing your own banners or hiring an artist, testing new client bases, or what have you—is mostly about what kind of budget you have. ▼

Tips for Designing Banner Ads

There are two reasons to design your own banner ads: either you have a fabulous designer on staff who is also advertising-savvy or you can't afford to hire an ad agency. Whichever your reason for taking the do-it-yourself route, there's a bit about Web-advertising psychology and a couple of inexpensive software products you should know about.

For the latter, Microsoft's $149-estimated FrontPage offers an ad hoc but workable solution for creating banner ads; if you know Java scripting, you'll be okay. If you don't know Java scripting, you're in luck: A new company called Zapa Digital Arts (www.zapa.com) offers a $99-direct package called MicroSites that will let you create a banner ad complete with multimedia effects in as little as six minutes, with no Java or technical skills required. Adding audio is as simple as pulling down a menu; placing graphics is a drag-and-drop cinch. You can also upload the banner ad to your Web site from within MicroSites itself.

Once you've got an ad-design program at your disposal, what do you do with it? Here are two pieces of design advice repeated by several advertising veterans:

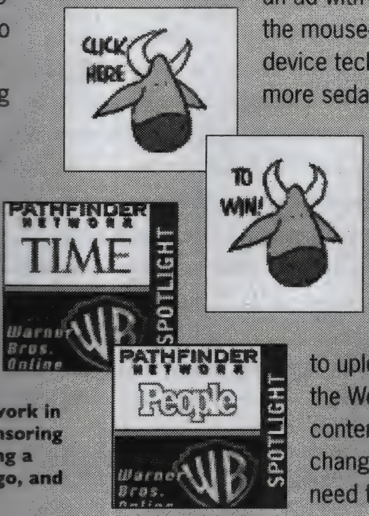
First, the goal is to get people to click on your banner ad. In Web-ad lingo, this is called the "click-through." According to CyberGold officials (*www.cybergold.com*), whose business it is to market-test how Netizens react to banner ads, the easiest way to get people to click on your ad is to offer them free stuff for doing so—or even the possibility of winning free stuff. Even if you only give away a $5 bill, these types of contests will lure surfers to your site.

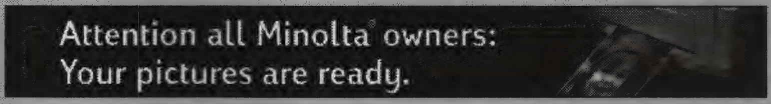
The second key thing to consider is the look and image you're projecting with the banner ad. Advertising veterans recommend making the banner consistent with everything else your company shows the public—your logo, color scheme, and slogan. Can you imagine an IBM ad, for instance, without its logo or featuring a color other than blue? Brands are associated with images, colors, and logos; this should remain as consistent on the Web as it does anywhere else you advertise.

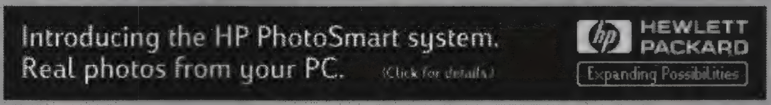
When it comes to the banner content itself, it's a different story. While your image is sacrosanct for brand recognition, the content—the specific "hook" of the ad, whether it's a contest, a particular product, or a timely message—is where you should experiment.

As an example of how you might diversify your content, Cirque Corp.'s Thomas Quarton reveals: "We use different kinds of banners and rotate them. One is an ad with a picture of a cat being mightier than the mouse—that's because our new pointing device technology is called the Cat." Another, more sedate banner points out the benefits of Cirque's touch-pad technology over traditional pointing devices. "We rotate the different designs and see which one gets us the best response," Quarton concludes. "But the look and logo are always the same."

Fortunately, banner ads are easy to upload and just as easy to pull down from the Web, so feel free to be creative with your content. The medium also makes it easy to change your message in a heartbeat if you need to publicize something like a new product or price cut. Just keep customers informed about your message, not uncertain about your image. ▼






Introducing the HP PhotoSmart system.
Real photos from your PC.
(Click for details)
hp HEWLETT PACKARD
Expanding Possibilities

Three tactics that work in banner ads are sponsoring contests, maintaining a brand's look and logo, and having a "hook."

REVIEW

AuraLine Java Multimedia Creation Kit

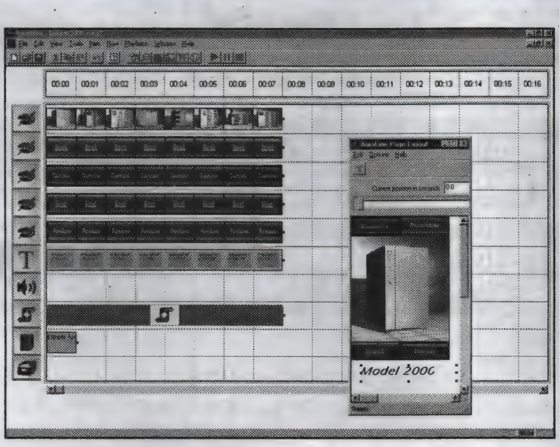
GET YOUR JAVA TO GO

With AuraLine, adding Java applets to your Web site is quick, cheap, and easy.

BY LYNN GINSBURG

In the short time since its inception, Java has rapidly evolved to the point where the power it provides is accessible to just about anyone. Joining the ranks of script-free Java authoring tools, NEC Systems Laboratory's $19.95-list AuraLine lets users easily create multimedia Java applets. AuraLine has its limitations and can't really offer the breadth or sophistication of more expensive professional Web multimedia applications such as Hyperwire, Macromedia Director, or Emblaze. But AuraLine's price, power, and ease of use make it an excellent choice for entry-level Web multimedia authors.

AuraLine's simple interface shields users from any underlying complexity. Rather than working directly with Java script or coding, users instead compile Java applets by arranging elements in a time line, the familiar centerpiece of multimedia applications such as Director. The time line's main function is to coordinate the timing, interactivity, and duration of these elements.



Once all of the elements are placed in the time line, their placement can be tweaked in the Layout window.

The time line is represented as a grid with multiple rows, each of which contains individual media elements. The length to which elements stretch across columns determines how long the media elements appear in your multimedia title. The columns in AuraLine's time line are, by default, displayed in one-second increments, but they can be configured to display for one-tenth of a second for greater control.

The rows in the time line contain graphics elements, text, sound files, logic, and comments. To add content to any of the rows, you just double-click on the cell where you want the content to appear. For the graphics row, you can import BMP, JPEG, or GIF files; for the audio row, you can import WAV files. In the text cell, you can either enter custom text or paste existing text. When creating AuraLine titles for use in Powerpoint, you can add AVI video files (an option that's unavailable for Web titles). AuraLine lets you create multiples of any of these rows for layering elements that appear in the same frame. For instance, for a single frame, you could make multiple graphics rows that will contain a background image overlaid with several buttons.

AuraLine Java Multimedia Creation Kit

NEC Systems Laboratory
610 Rio Robles Dr., MS/SJ 305
San Jose, CA 95134
888-223-4385; 408-433-1358
Fax: 408-433-1448
www.auraline.com
Requires: Pentium or faster; 15MB hard drive space; Windows 95 or Windows NT 4.0
List Price: $19.95

Although coordinating elements in the time line can become a complex process for users who aren't experienced with multimedia development, AuraLine keeps the complexity to a minimum by providing a spare interface with few options. Case in point: Interactivity based on if-then conditionals is potentially one of the most complicated elements in a multimedia title. AuraLine keeps it simple by offering only three options for "if" and three for "then." These basic options adequately define enough variables to develop fairly sophisticated titles, but there are a number of more advanced things you can't do—i.e., timed interactive actions, elaborate hierarchial branching, or your own custom Java code. Those who need more comprehensive options will have to invest in a pricier application such as Director or Hyperwire.

AuraLine manages interactivity in the logic row of the time line. Each cell in the logic row has properties that determine the action for the "then" part of the conditional and a label for the logic contained in that cell. The logic row's three "if" conditionals can be tied to mouse clicks within a specific frame, within specific coordinates (for creating hotspots), or within a specific column in the time line. The three "then" conditionals can be tied to jumping to specified time frames, URLs, or labels for other logic entities.

For example, if you had a product catalog on your Web page, you could tie an "if" action to a mouse click on a text label for a product—when the user clicks on it, it launches the "then" action of displaying the graphic with a WAV file that urges the user to buy now. The ability to use the logic commands to navigate and control events internally within a multimedia title, as well as link to external URLs, makes AuraLine's interactivity functions both straightforward and powerful.

In addition to serving interactivity functions, graphics can also add action to your title. Within the graphics properties box, you can define the action—such as a sound and/or an image—that results when you, say, roll the mouse over a graphic. You can also create visual effects for graphics, including zoom, fade, and scroll.

If you want to make your graphic into an animation, you can do so by stringing several sequential images together along the time line. But the program has no built-in capabilities for morphing them into a seamless animation. Nor does it have a wizard that enables you to rotate, flip, or spin your animation along a path, as does Astound's more expensive WebMotion.

Once you've assembled your title in the time-line window, you can then use the Page Layout window to adjust and tweak the multimedia elements. Although you can numerically specify placement of hotspots, text, and graphics in the time-line window, the Page Layout window lets you go frame by frame and visually adjust the actual layout and placement of each element that appears on the page.

The final step in your title is saving it. You can do this easily by "packaging" your title, which either saves it locally or sends it via FTP to your Web page. The entire title can be saved as an HTML page, or you can insert the individual applet into another page. When the program packages your title for display in PowerPoint, the files are copied to a location on your local computer where you can then insert them into a PowerPoint 97 file.

AuraLine's main drawback is its barely adequate documentation. The program includes what they refer to euphemistically as a "mini manual." Online help is available, but it's also minimal and confusing. For instance, a search on the often-used multimedia term "hotspot" comes up empty, but you'll find information under "t"—"to add a hotspot." The only ameliorating factor is that most of the program is self-explanatory.

AuraLine's bargain-basement price of $19.95 also includes an additional CD packed with multimedia elements such as clip art, sounds, buttons, and stock photos. So even though the program's help may be scanty, and it can't match the sophistication of much more expensive Web multimedia authoring programs, it's kind of unfair to gripe too much. For both the novice user and the professional in search of a bargain, being able to add Java multimedia applets to your Web site easily and cheaply is something to be cheerful about. ▼

REVIEW

HomeSite 3.0

THE P's AND Q's OF HTML

Allaire's text-based HTML editor gives you a simple way to make sophisticated Web pages.

BY JIM FREUND

Why would anyone still want to use a text-based HTML editor to create a Web site when WYSIWYG editors such as Microsoft FrontPage and NetObject Fusion are all the rage? One reason may be that although graphics-based editors boast ease of use for designing basic pages, these programs often have problems coping with the most recent innovations, such as Dynamic HTML and Cascading Style Sheets. WYSIWYG editors also have a tendency to create code that doesn't yield the precise layout you may have had in your mind's eye. In contrast, text-based editors let you maintain complete control over your code. And although a great many people find the idea of working with code daunting, a well-designed text editor can make even the most complex features easy for users.

HomeSite 3.0

Allaire Corp.
1 Alewife Center
Cambridge, MA 02140
888-939-2545; 617-761-2000
Fax: 617-761-2001
www.allaire.com
Support: Live phone support, 8 a.m. to 8 p.m. weekdays (ET)
Requires: Pentium 75 or faster; 12MB hard drive space; Windows 95
List Price: Boxed CD-ROM with manual, $89; electronic form, $79; upgrade, $39

So it is with Allaire Corp.'s HomeSite 3.0. Almost any feature you can use on a Web site is available right on the desktop, letting you browse the options easily and select the techniques you want to try. Windows and toolbars have multiple functions, keeping your work area clean despite all the readily available choices.

The right portion of the main screen is where you edit your code or display the results in the internal browser. A single function key lets you toggle between code and browser, which doesn't qualify as WYSIWYG editing, but does make it simple to see the results of your efforts as you progress. Drag-and-drop editing works for links, images, and even style sheets.

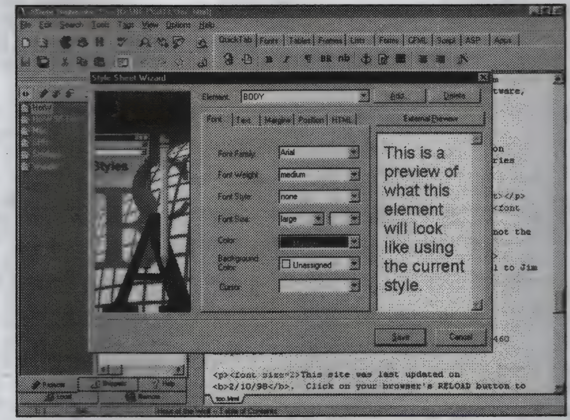
HomeSite relies on projects as the basic paradigm for working with Web pages. The assumption is that you will maintain a site on your local machine that mirrors the directory structure and file layout you will post on the Web server. Each project maintains information on directory locations for your HTML and graphics in order to use relative file locations within your code. The FTP address for your Web server is also included so you can upload your files accordingly.

You can access your projects from the Resource window on the left side of the screen, which changes functionality with a click of a tab. Other tabs offer access to local files, files on a remote server, macros (referred to as Snippets), and online help. When directories contain graphics, you can generate thumbnails of the images.

However, it is near the top of the screen, between the main windows and the menu, that HomeSite displays its innovative interface design. An amazing number of tools are placed in a relatively small space with use of the Speedbar, which changes functionality depending on which of nine preset tabs you select. These are fully customizable, letting you go so far as to place launch buttons for external applications. The presets include ColdFusion, a sister product for creating online applications and databases; Fonts; Forms; Frames; Lists; Tables; scripts for Java applets, JavaScript, or ActiveX elements; and ASP for Microsoft server extensions. Wizards are frequently available to help you through some of these elements, but it would also be nice to have working samples of what each of these preset buttons can do. Other toolbars are scattered throughout the desktop; unfortunately, some of the icons are so small that you might inadvertently ignore them.

You create your document on the main screen. The HTML is color-coded to differentiate text from tags and their parameters; different colors specify specific tag types, comments, or scripts. Resting your cursor within a tag will pop up a tag-tip balloon, which offers a list of all the parameters that tag can use—useful for knowing your options, but sometimes confusing when there are a large number of obscure elements, as with the Body or Table tags.

Pressing Shift-F2 presents a drop-down list from which you can build your tag(s) on a parameter-by-parameter basis as you type. Alternatively, the F4 key will summon a dialog box customized for the highlighted tag type. For example, an image tag will let you preview the graphic, resize it, or set the alignment, whereas the body tag has options for backgrounds, margins, and watermarks, and the like.



Element: BODY
Font Family: Arial
Font Weight: medium
Font Style: none
Font Size: large
Color:
Background Color: Unassigned
Cursor:

This is a preview of what this element will look like using the current style.

```
<p><font size=2>This site was last updated on
<b>2/10/98</b>.  Click on your browser's RELOAD button to
```

Call on HomeSite 3.0's wizards to carry out more complex tasks, such as Style Sheets.

A feature new to version 3.0 lets you establish bookmarks within an open document, so you can easily jump back and forth to particular points during editing. Sadly, closing the file wipes out those bookmarks, so they need to be reset each time that document is opened and therefore they can't be included in templates, limiting their usefulness. HomeSite includes a lot of other handy keyboard-shortcut keys, such as setting the size for the selected text to be +1 or –1, inserting a non-breaking space, or converting text to a list. A powerful macro facility is handy, but unfortunately lacks the ability to sort your entries on the selection list.

When you are finished designing your page or project, you can use supplied tools to verify links, check spelling while excluding tags, validate your code (using a utility that was previously included as unregistered shareware), and upload the project to your server via a long-overdue built-in FTP application.

The program has some problems. You can open and save individual files remotely from the Resource window, but the FTP utility wants to work only with projects, and it must compare the versions of all local and remote files to upload even a single document, which can be a lengthy process. The online help uses your browser for display, which lets it have more power than the standard Windows help, but means that you must conduct an extensive search to find even a simple entry. Similarly, the well-written manual lacks an index.

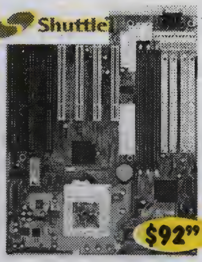
There are a few elegant templates for pages, including Style Sheets and Tables of Contents, but more would be welcome. The program could also use more samples of special features, like JavaScript applets or prebuilt styles.

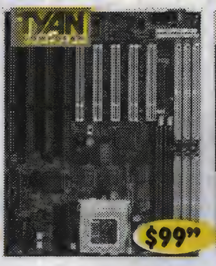
When we last looked at HomeSite in November 1997, it was a sleek, powerful editor whose simplicity made it a joy to use. (See the Software feature, "Cracking the Code," p. 341.) Now the program has been "discovered," and Allaire seems to be upgrading it to try to meet the needs of a more demanding audience. As the interface gets more complex, a learning curve has appeared where none was previously, and HomeSite teeters on losing the characteristics that first made it attractive. Like a friendly neighborhood restaurant that gets a rave review in the city paper and starts to expand beyond recognition, HomeSite is still good, but the original clients might consider dining elsewhere. Let us hope that Allaire will keep ease of use on HomeSite's menu. ▼

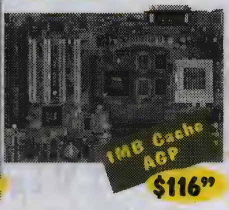
ABERDEEN

The Straight Talk People SM

PENTIUM® MOTHERBOARDS







	Shuttle Hot-569	Abit TX5	Tyan S1571S	Asus TXP4	FIC PA-2012	SuperMicro P5MMS98
Chip Set	Intel Triton 430TX	Intel Triton 430TX	Intel Triton 430TX	Intel Triton 430TX	VIA Apollo VP3	Intel Triton 430TX
Cache Type	Pipelined Burst	Pipelined Burst	Pipelined Burst	Pipelined Burst	Pipelined Burst	Pipelined Burst
Cache Included / Maximum	512 / 512 KBytes	512 / 512 KBytes	512 / 512 KBytes	512 / 512 KBytes	1024 / 1024 KBytes	512 / 512 KBytes
Maximum Memory	256 MBytes	256 MBytes	256 MBytes	256 MBytes	384 MBytes	256 MBytes
# of 72-Pin SIMM EDO/FPO Sockets	4	4	6	4	0	4
# of 168-pin DIMM SDRAM Sockets	3	2	2	2	3	2
ECC / Parity Checking	No	No	No	No	Yes	No
EDO / SDRAM Memory Support	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
2 channel EIDE + High Speed I/O	Yes, UltraATA/33	Yes, UltraATA/33	Yes, UltraATA/33	Yes, UltraATA/33	Yes, UltraATA/33	Yes, UltraATA/33
Flash BIOS	Award	Award	Award w/DMI	Award w/DMI	Award w/DMI	AMI w/DMI
Other Built-in	PS/2, 2 USB, IR	PS/2, 2 USB, IR	PS/2, 2 USB, IR	PS/2, USB, IR opt.	PS/2, 2 USB, IR	PS/2, 2 USB, IR
Slots PCI / ISA / Shared	3 P / 2 I / 1 S	3 P / 2 I / 1 S	4 P / 4 I / 1 S	3 P / 2 I / 1 S	3 P / 1 I / 1 S / 1 AGP	3 P / 3 I / 1 S
Motherboard size	¾ Baby AT 8.7"x11"	Baby AT	Baby AT	¾ Baby AT 9.6"x9.6"	ATX 12"x8.8"	Baby AT
Made in USA	No	No	No	No	No	No
Motherboard only	**$92.99**	**$104.99**	**$99.99**	**$107.99**	**$116.99**	**$116.99**
w/AMD-K6™ MMX 200	**$202.99**	**$214.99**	**$209.99**	**$217.99**	**$226.99**	**$226.99**
w/AMD-K6™ MMX 233	**$242.99**	**$254.99**	**$249.99**	**$257.99**	**$266.99**	**$266.99**
w/Cyrix 6x86MX™ PR200 (75/150)	**$177.99**	**$189.99**	**$184.99**	**$192.99**	**$201.99**	**$201.99**
w/Cyrix 6x86MX™ PR233	**$232.99**	**$244.99**	**$239.99**	**$247.99**	**$256.99**	**$256.99**
w/Intel Pentium MMX 200	**$212.99**	**$224.99**	**$219.99**	**$227.99**	**$236.99**	**$236.99**
w/Intel Pentium MMX 233	**$262.99**	**$274.99**	**$269.99**	**$277.99**	**$286.99**	**$286.99**
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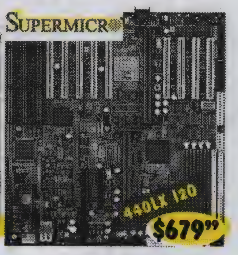
440LX AGP
$154 99

440LX AGP
$359 99



	Shuttle Hot-637	FIC VL-601	SuperMicro P6SLA	Asus P2L97	SuperMicro P6DLS	SuperMicro P6DLH
Chip Set	Intel 440LX AGPset	Intel 440LX AGPset	Intel 440LX AGPset	Intel 440LX AGPset	Intel 440LX AGPset	Intel 440FX and i960 RP
Maximum Memory	1024 MBytes	384 MBytes	1024 MBytes	384 MBytes	1GB EDO / 512MB SDRAM	1GB EDO / 512MB SDRAM
72-pin SIMMs / 168-pin DIMMs	0 / 4	0 / 3	0 / 3	0 / 3	0 / 4	0 / 4
Flash BIOS	Award w/DMI	Award w/DMI	Award w/DMI	Award w/DMI	AMI w/ DMI	AMI w/DMI
2 channel EIDE / 2940UW SCSI	Yes / No	Yes / No	Yes / Available on P6SLS	Yes / Avail. on P2L97S	Yes / Yes	Yes + I_2O / No
Other Built-in	PS/2, 2 USB & IR opt	PS/2, 2 USB & IR opt	PS/2, 2 USB & IR	PS/2, 2 USB & IR opt	Thermal, PS/2, 2 USB & IR	Thermal, I_2O, USB, PS/2
Slots PCI / ISA / Shared / AGP	3 P / 2 I / 1 S / 1 A	4 P / 1 I / 1 S / 1 A	3 P / 2 I / 1 S / 1 A	4 P / 1 I / 1 S / 1 A	3 P / 2 I / 1 S / 1 A	8 P / 2 I / 1 S / 0 A
Motherboard Size	ATX	ATX 12"x8.8"	ATX	ATX 12"x7.5"	ATX 12"x8.3"	Full AT 13.2"x12.2"
Made in USA	No	No	No	No	Yes	Yes
Motherboard Only	**$129.99**	**$119.99**	**$149.99**	**$154.99**	**$359.99**	**$679.99**
w/Intel Pentium II 233 512K	**$389.99**	**$379.99**	**$409.99**	**$414.99**	**$619.99**	**$939.99**
w/Intel Pentium II 266 512K	**$489.99**	**$479.99**	**$509.99**	**$514.99**	**$719.99**	**$1039.99**
w/Intel Pentium II 300 512K	**$609.99**	**$599.99**	**$629.99**	**$634.99**	**$839.99**	**$1159.99**
w/Intel Pentium II 333 512K	**$799.99**	**$789.99**	**$819.99**	**$824.99**	**$1079.99**	**$1349.99**
w/Dual Intel Pentium II 266 512K	**N/A**	**N/A**	**$975.99** (P6DLE)	**$1139.99** (P2L97-DS)	**$1079.99**	**$1399.99**
w/Dual Intel Pentium II 300 512K	**N/A**	**N/A**	**$1215.99** (P6DLE)	**$1379.99** (P2L97-DS)	**$1319.99**	**$1639.99**
w/Dual Intel Pentium II 333 512K	**N/A**	**N/A**	**$1595.99** (P6DLE)	**$1759.99** (P2L97-DS)	**$1699.99**	**$2019.99**
Aberdeen Part Number	*MB6303*	*MB6405*	*MB6114*	*MB6702*	*MB6108*	*MB6115*

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$1049 *w/350MHz CPU*	$1159 *w/350MHz CPU*	$1169 *w/350MHz CPU*	$1269 *w/350MHz CPU*
$1269 *w/400MHz CPU*	$1379 *w/400MHz CPU*	$1389 *w/400MHz CPU*	$1489 *w/400MHz CPU*

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- ☐ Intel 430HX PCIset

$219⁹⁵
w/200MHz CPU

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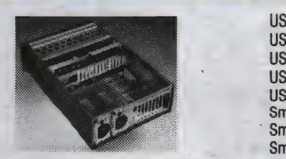

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US Robotics 56K x2 External *BFC901*	$181.99
US Robotics 56K x2 Internal Voice	$179.99
SmartLink 3334BRVP 33.6K *BFC704*	$49.99
SmartLink 5634BRS K56flex Voice *BFC705*	$72.99
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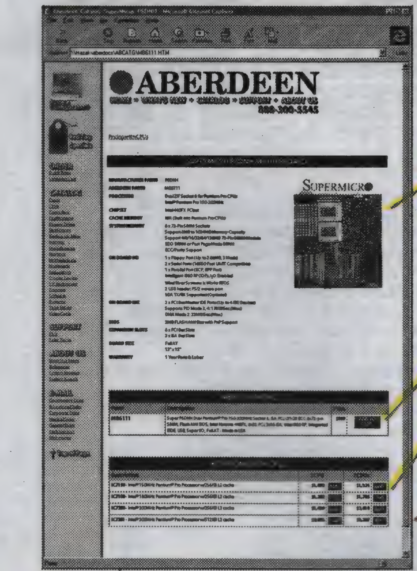

Anatomy of a Useful Website:

- System Configurator© allows you to custom configure systems to your exact specifications with instant pricing
- Detailed specs and pictures on over 60 motherboards and hundreds of other products
- Red Tag Specials Internet-only specials
- Visit our site and find out why it now gets over **4 Million hits** per month
- Helpful support section with links to manufacturers' sites, FAQs
- Shopping Cart allows easy and secure online shopping
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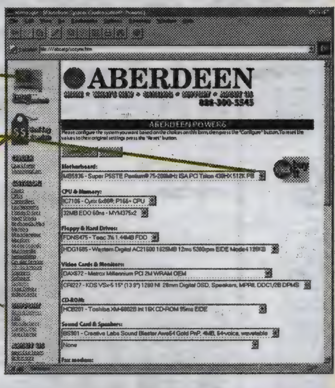

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Pentium 200/233MMX	$499/559
AMD K-6 200/233/266	$489/529/619

buy on line:www.am-micro.com

All Prices Subject to Change Without Notice~ RMA's Shipped Prepaid by Customer~ Shipping Not Refundable ~ Not Responsible for Typographical Errors ~ Prior Sales Excluded ~ Absolutlely No Refunds After 30 Days ~ All Products Names, Trademarks & Registered Trademarks Are The Property Of their Respective Companies~ No Returns On Special Orders or Customized Systems ~ 15% Restocking Fee On All Returns~ Call for Companies Policies Check Service For More Information.

to order 1.800.300.0615 • sales fax line 440.498.0114

COMPUTER SHOPPER

Reference

SHOPPING TOOLS FOR DIRECT BUYERS

PRODUCT BUYING ADVICE

Before you buy any computing hardware—whether it's a new PC, peripheral, or under-the-hood upgrade—it's smart to review the issues and choices you'll encounter. This compendium of categorized buying advice will help you do just that. We've collected and updated the Shopping Tips from recent issues' Hardware Shopper's Guides to make sure you've always got a checklist on hand for any purchase you might wish to make.

10 TIPS FOR DIRECT SUCCESS

Savvy shoppers follow these 10 commandments to buying direct and dealing with mail-order vendors to guarantee that each purchase is a success.

GOVERNMENT BUYING GUIDELINES

If you're a government employee, these purchasing guidelines give you valuable advice designed to simplify and expedite the process of buying computer equipment. Use them to review your procedural options and to pick up insightful how-to tips. Approaches covered include buying it yourself, establishing your own contracts with vendors, using existing Government Wide Acquisition Contracts (GWACs), and picking a General Services Administration (GSA) schedule.

HOW WE TEST

This section explains how we use our lab facilities and the Ziff-Davis Benchmark Operation's battery of tests in our stand-alone and comparative reviews—with an emphasis on the tests and procedures used to assess desktop PCs, notebook computers, and file servers.

EDITORIAL INDEX

Are you looking for a new product that you've heard about in the direct channel? Turn to the Editorial Index, an alphabetical listing of all PCs, peripherals, components, and programs described in this issue's editorial pages. Just as our Product Index steers you to specific items in ways a regular advertisers' index can't, *Computer Shopper*'s Editorial Index goes beyond the table of contents in the front of the magazine.

The page numbers listed here will guide you to the comparative tests in the magazine's Features and Software sections, and the single-product reviews throughout the magazine in sections like Multimedia Direct and Mobile Computing.

PRODUCT INDEX

Are you ready to tackle the great buys found in *Computer Shopper*'s advertisements, but daunted by the idea of hunting through all those pages? Start with the Product Index, our supersupplement to the regular advertisers' index.

This guide directs you to the vendors you're looking for by product category. The compilation of hardware and software advertised in this issue sorts more than 14,000 products into more than 170 frequently updated categories.

If you've never used *Shopper*'s Product Index before, look for products under the manufacturer's name rather than model name or number. When an ad doesn't provide the manufacturer's name, the advertiser's name appears by default. In addition to the name of the company that makes the product, you'll find a page number referring you to the advertisement.

In the case of multipage ads, only the first page number of the ad is listed, so you may still need to flip a few pages to find the product you're after.

SMOOTH SEARCHING

FOR PRODUCT INDEX USERS

Due to the lead time required to assemble and print a monthly magazine, prices and product availability are subject to change. Call vendors to get their latest prices, and ask whether any unadvertised specials or sale prices are available.

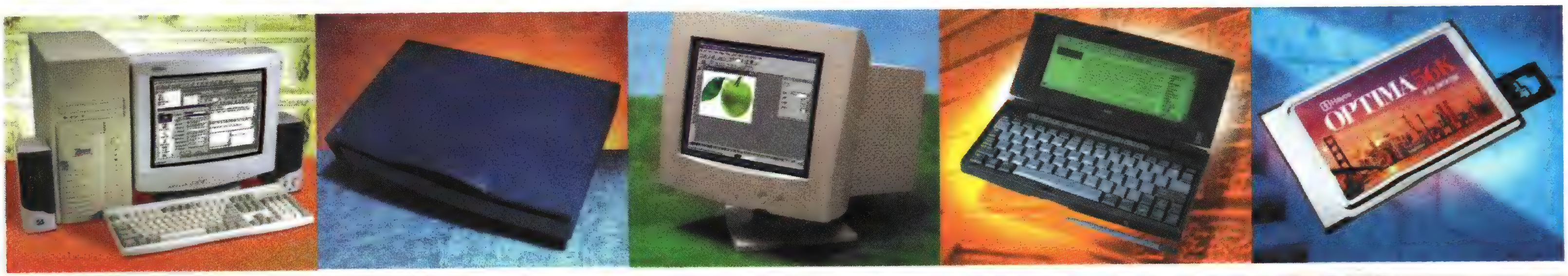
- Take notes and compare vendors' answers to find the best value for your needs.
- In addition to the resources in this Reference section, read the monthly Hardware Shopper's Guide and Smart Shopper sections, and search our Web site (*www.cshopper.com*) to help compile your research and buying questions.
- For quick, computerized searching, an online edition of the Product Index in Windows help file (WinHelp) format is available for downloading. See the listing at *www.cshopper.com/download.html.*

SOURCE DIRECTORY

After a search of the Product Index helps you find a vendor that supplies the product you want at a price you like, check the company's listing in our Source Directory—an alphabetical rundown of the issue's advertisers.

A quick check will tell you whether the company's sales lines are open 24 hours, just during weekday business hours, or any time in between, and will also provide the number and operating hours of the vendor's tech-support line. If you need to correspond with a company after a purchase, note its fax number and mailing address.

We also list each vendor's service and support policies, such as its basic warranty and money-back guarantee information; payment options, such as which credit cards are welcome; and whether the firm charges a restocking fee for returned merchandise or a surcharge for credit-card orders. Volume buyers and resellers can learn about special discounts, too.



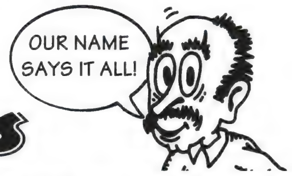
DIRT CHEAP

THE #1 SOURCE FOR STORAGE PRODUCTS

FAST SERVICE

We stock what we sell for fast service! Most orders are shipped the same day.

LOW PRICES


OUR NAME SAYS IT ALL!

Our huge volume allows us to sell at "DIRT CHEAP" prices. Compare our prices. "Dirt Cheap was the firm I'd buy from....it's prices were the lowest of the bunch." Jan 1998 Computer Shopper. If by chance you do find a lower price, call us.

LONGEVITY

We are proudly celebrating our 10th birthday this year.

SATISFIED CUSTOMERS

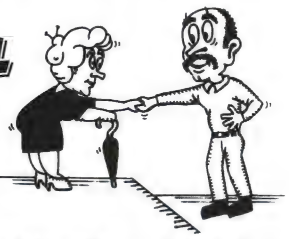
We satisfy our customers, most of our business is from repeat customers. Rest assured we will satisfy you as well.

Tear and compare our media prices!

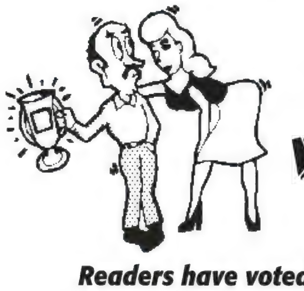
QUALITY TECH SUPPORT

Our technical staff is factory trained and can assist you with even the most complex problems. PC Magazine said our technical staff "was notable for their informed and effective responses"

HELPFUL STAFF



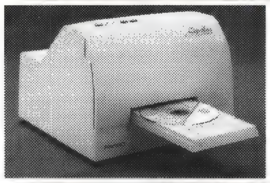
Our entire staff is friendly and helpful, we sincerely appreciate your business. Storage products are all we carry, so our staff can answer all your storage questions.



AWARD WINNING

Readers have voted us to our third consecutive readers choice award. PC COMPUTING said "The name says it all. Buying a hard drive? Call here first."

CD PRINTER



Fargo Signature Printer $1019
Your CD's will look professional quality with this color CD printer. Prints on printable CD's. Compatible with PC or Mac.

CDR SOFTWARE

Adaptec	
Easy-CD Creator 3.0 OEM (EZCDCRTRSTD)	$50*
- Supports Win 95, and NT 4.0	
- Retail version of above (EZCDCRTRRTL)	$90
DirectCD (DIRECTCD)	$39*
- Option for Easy-CD allows CD-R & CD-RW drives to work like hard drive under Win 95, & NT 4.0 with some drives.	
Toast CD-ROM Pro (TOAST)	$75*
- Supports Macintosh includes Direct CD for MAC	
Elektroson	
Gear Multimedia for PC (GEAROEM)	$55*
- Supports Windows 3.1, 95, NT	
- Retail version of above (GEAR-RETAIL)	$105
Gear Audio(GEAR-AUDIO)	$69
- Supports Win 95, and NT 4.0	
- Allows you mix your own audio CDs	
Gear Replicator(GEAR-REP)	$45
- Supports Win 95, and NT 4.0	
- Allows you to copy CD ROM, music CD's, etc	
Web Grabber (WEBGRAB)	$29
- Supports Win 95, and NT 4.0	
- Allows you to easily store complete Web sites on CDR	
Gear for UNIX(GEAR-UNIX)	$989
- Compatible with most UNIX workstations	
Creative Digital Research	
HyCD Suite for Win 3.1, 95 & NT4.0(HYCDSUITE)	$69
Creative Digital Research CDR HYCD for PC (Windows 3.1, 95, NT) creates hybrid CDs for PC/Mac/Unix (CDRHYWIN)	$359
Creative Digital Research CDR HYCD for Unix workstations, creates hybrid CDs for PC/Mac/Unix (CDRHYUNIX)	$1299
PC Guardian	
Encription Plus for CD (CDENCRYPT)	$56

CD RECORDABLE MEDIA

CDR-74 in jewel case	Alone	with CDR
Budget 5 pack (CDR74B-5)	$19	$17
Budget 20 pack (CDR74B-20)	$36	$33
Budget 50 pack (CDR74B-50)	$74	$70
Budget 100 pack (CDR74B-100)	$139	$129
5 pack (CDR74-5)	$21	$19
20 pack (CDR74-20)	$42	$39
50 pack (CDR74-50)	$93	$89
100 pack (CDR74-100)	$159	$149
Platinum 5 pack (CDR74PA-5)	$23	$21
Platinum 20 pack (CDR74PA-20)	$51	$48
Platinum 50 pack (CDR74PA-50)	$117	$113

Printable CDR-74 in jewel case	Alone	with CDR
5 pack (CDR74P-5)	$27	$24
20 pack (CDR74P-20)	$65	$62
50 pack (CDR74P-50)	$139	$135
100 pack (CDR74P-100)	$259	$249
Budget 5 pack (CDR74PB-5)	$24	$21
Budget 20 pack (CDR74PB-20)	$55	$52
Budget 50 pack (CDR74PB-50)	$119	$109
Budget 100 pack (CDR74PB-100)	$199	$189

CD REWRITABLE MEDIA

CDR-74W in jewel case	Alone	with CDR
Budget 5 pack (CDR74WB-5)	$80	$76
Budget 20 pack (CDR74WB-20)	$299	$289
Budget 50 pack (CDR74WB-50)	$699	$689
Budget 100 pack (CDR74WB-100)	$1299	$1289
5 pack (CDR74W-5)	$97	$93
20 pack (CDR74W-20)	$360	$355
50 pack (CDR74W-50)	$869	$859
100 pack (CDR74W-100)	$1629	$1610

WE WON'T BE UNDERSOLD!

DIRT CHEAP DRIVES

Call 1-800-786-1170
or order online at
www.dirtcheapdrives.com

DIRT CHEAP DRIVES

Is the #1 Source for CD Media!

We have made a commitment to be THE source for all CD Media.

Our CD media features:
Lifetime Warranty
Low Price Guarantee
Jewel Case Packaging
No inconvenient rebates
NEW Lower Shipping Rates

DRIVES 800-473-0960

CALL M-F 8AM-8PM, SAT 9-3 CST
24HR ORDERING WWW.DIRTCHEAPDRIVES.COM

RICOH

	Internal	*External*
SCSI 1MB Drive	$339 (RO6200S)	$429 (RO6200SX)
SCSI Kit 1MB Drive	$389 (RO6200KN)	$479 (RO6200KNX)
1MB Kit w/ controller	$439 (RO6200SK)	$539 (RO6200SKX)
SCSI 2MB Drive	$389 (RO6201S)	$479 (RO6201SX)
SCSI Kit 2MB Drive	$439 (RO6200KN)	$529 (RO6200KNX)
2MB Kit w/ controller	$489 (RO6201SK)	$589 (RO6201SKX)
IDE Kit 1MB Drive	$379 (MP6200A)	$479 (MP6200AX)
Add 5 ReWritable media (CDR74WB-5)		$76

- 2x Record, 6x Read. 650MB capacity.
- Packet write compatible.
- 1MB version tray loading, 2MB version caddy loading.
- Writes to both CD-R (write once) and, CD-RW (rewritable) CD media.
- Kit includes mastering software,1 CDR-W, & 1 CDR disk.

CD Recorder Headquarters

Best Buy CD Recorders

Smart STORAGE SOLUTIONS

5 Free disks with each drive!
Toll Free technical support!
Name brand drives!
High quality at an affordable price!

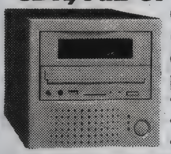
2x6 SCSI CD ReWritable
- 2x Record, 6x Read, Ricoh mechanism
- Packet write compatible
- 1MB cache, tray loading.
- CD-R and CD-RW compatible
- Includes 5 rewritable disks

	Internal	External
Drive Kit	$419	$519
Complete Kit with ISA controller	$469	$569
Complete Kit with PCI controller	$519	$619
Jaz or SyJet combo		$799

4x6 SCSI CD ReWritable
- 4x Record, 6x Read, Yamaha mechanism
- Packet write compatible
- 2MB cache, Tray Loading
- Includes 5 rewritable disks

	Internal	External
Drive Kit	$539	$639
Complete Kit with ISA controller	$589	$689
Complete Kit with PCI controller	$649	$749
Jaz or SyJet combo		$909

CDR/Jaz or CDR/SyJet Combo Units



Create your CD content on the Jaz or SyJet (Syjet 1.5GB drive will hold two CD images) drive - then master directly to the CDR. The perfect CDR setup! Includes:
- 5 FREE blank CDs
- 1 Free Jaz or SyJet Disk
- Choose Easy CD-Pro for PC or Toast for Mac.

2x6 SCSI CD ROM RECORDER
- 2x Record, 6x Read, Sony mechanism
- Packet write compatible
- Caddy loading

	Internal	External
Drive Kit	$319	$419
Complete Kit with ISA controller	$369	$469
Complete Kit with PCI controller	$429	$529
Jaz or SyJet combo		$679

4x8 SCSI CD ROM RECORDER
- 4x Record, 8x Read
- Packet write compatible
- Tray Loading, 1MB buffer

	Internal	External
Drive Kit	$349	$449
Complete Kit with ISA controller	$399	$499
Complete Kit with PCI controller	$459	$559
Jaz or SyJet combo		$709

2x8 IDE CD ROM RECORDER
- 2x Record, 8x Read, Sony mechanism
- Packet write compatible
- Caddy Loading

	Internal	External
Drive Kit	$319	n/a
Complete Kit with ISA controller	$349	$519

4x8 IDE CD ROM RECORDER
- 4x Record, 8x Read
- Packet write compatible
- 1MB buffer, Tray Loading

	Internal	External
Drive Kit	$349	n/a
Complete Kit with ISA controller	$379	$549

4x12 SCSI CD ROM RECORDER
- 4x Record, 12x Read, Teac mechanism
- Packet write compatible, Tray Loading.

	Internal	External
Drive Kit	$399	$499
Complete Kit with ISA controller	$449	$549
Complete Kit with PCI controller	$509	$609
Jaz or SyJet combo		$759

Drive Kit - Includes drive, Mastering software for Win95 & NT, & 5 free disks (requires controller)

Complete Kit - Includes drive, ISA or PCI controller, Mastering software for Win95 & NT & 5 free disks

SCSI CD RECORDERS

Sony 2x6 Packet write, 1MB buffer, caddy load	
Internal drive (CDU926S)	$295*
Internal kit w/ controller, software, 1 disk (CDU926SK)	$395
External drive (CDU926SX)	$385
Yamaha 4x6 Packet write, 2MB buffer, tray load	
Internal drive (YCDR400T)	$399*
Internal kit w/ controller, software, 1 disk (YCDR400TK)	$499
External drive (YCDR400TX)	$489
Matsushita 4x8 Packet write, 1MB buffer	
Internal drive tray load (CDR7502B)	$319
Internal kit w/ controller, software, 1 disk (CDR7502BK)	$419
External drive tray load (CDR7502BX)	$409
Sony 4x8 Packet write, 2MB buffer, caddy load	
Internal drive (CDU948S)	$339*
Internal kit w/ controller, software, 1 disk (CDU948SK)	$439
External drive (CDU948SX)	$429
Teac 4x12 Packet write, 1MB buffer, tray load	
Internal drive (CDR55S)	$389
Internal kit w/ controller, software, 1 disk (CDR55SK)	$489
External drive (CDR55SX)	$479
Plextor 4x12 Packet write, 1MB buffer	
Internal drive caddy load (PXWRITER)	$479
External drive caddy load (PXWRITERX)	$569

IDE CD RECORDERS

Sony 2x8	
Internal (CDU928S)	$299*
Kit w/ 1 disk, and software compatible with Win 95 & Win NT 3.51 & up. Req IDE controller. (CDU928SKIT)	$319
External kit w/ controller, software, 1 disk (CDU928SXKIT)	$519
Mitsumi 2x8	
Kit includes 1 disk, and software compatible with Win 95 & Win NT 3.51 and up. Requires IDE controller.	
Internal (CRMC2800TE) $295 or **$265** after $30 mail in rebate	
External kit w/ controller, software, 1 disk (CRMC2600TXK)	$489
Smart Storage Solutions 4x8	
Kit includes 5 disks, and software compatible with Win 95 & Win NT 3.51 and up. Requires IDE controller.	
Internal drive tray load (SSS4X8CDRIN)	$349
External kit w/ controller, software, (SSS4X8CDRX)	$549

* Drive must be purchased with CDR software or media.

SCSI CD REWRITABLE

RICOH 2x6 (see above)

Yamaha 4x6	
SCSI drive, writes to CDR (write once) at 4X or CDRW (rewritable) media at 2X. Supports packet write, 2MB buffer.	
Internal drive tray load (YCDR4260)	$469*
External drive tray load (YCDR4260X)	$559*
Internal w/ controller, software, 1 RW disk (YCDR4260KIT)	$539
External kit w/ controller, software, 1 disk (YCDR4260XK)	$649

Call with your requirements: CD duplicators CD Jukebox with CDR DVD recorders etc.

IDE CD REWRITABLE

Smart Storage Solutions 2x6 ReWritable	
Writes to CDR (write once) or CDRW(rewritable) media. Packet write, 1MB buffer, tray load. Includes Mastering software for Windows 95, And NT. Also includes 1 CD-R & 1 CD-RW disk. Requires IDE controller.	
IDE Internal with software (SSS2X6CDRW)	$339
Hewlett Packard 2x6 ReWritable	
SureStore 7200, Writes to CDR (write once) or CDRW(rewritable) media. Packet write, 1MB buffer, tray load. 1 CD-R & 1 CD-RW disk.	
IDE Internal with software (C4380A)	$399
External for parallel printer port (C4381A)	$485

CD LABELING

CD STOMPER
- 100 labels compatible with inkjet or laser printers, and most photo copiers.
- Label applicator • 1200 clip art images
- Mac & PC template software for all major applications.

$55 or only $45 with CDR drive purchase (CDLABELPRO)
100 extra labels $19 (PAPERLABEL)

May, 1998
Computer Shopper

DIRT CHEAP DRIVES 1-800-473-0960

page 2 of 6

DIRT CHEAP

HARD DRIVES

Quantum

We recommend Quantum drives! New Viking II (VK304550 and VK309100), and Atlas III (XP309100 and XP318200) are A/V ready out of the box!

ULTRA IDE	Speed	RPM	Model	Wty	Price
2111MB	9.5ms	5400	FB32100A	3	$145
3228MB	9.5ms	5400	FB33200A	3	$179
4018MB	12ms	4000	BF4000A	3	$189
4310MB	9.5ms	5400	FB34300A	3	$199
6028MB	12ms	4000	BF6000A	3	$239
6448MB	9.5ms	5400	FB36400A	3	$255
8037MB	12ms	4000	BF8000A	3	$259
8455MB	9.5ms	5400	FB38400A	3	$339
12056MB	12ms	4000	BF12000A	3	$349
ULTRA SCSI					
2111MB	9.5ms	5400	FB32100S	3	$209
2275MB	8ms	7200	VK32275S	5	$235
3228MB	9.5ms	5400	FB33200S	3	$240
4310MB	9.5ms	5400	FB34300S	3	$275
4550MB	8ms	7200	VK34550S	5	$340
4550MB	8ms	7200	XP34550S	5	$469
6448MB	9.5ms	5400	FB36400S	3	$355
8455MB	9.5ms	5400	FB38400S	3	$455
9100MB	8ms	7200	XP39100S	5	$725
9100MB	8ms	7200	XP309100S	5	$799
18200MB	8ms	7200	XP318200S	5	$1299
ULTRA WIDE SCSI					
2275MB	8ms	7200	VK32275W	5	$239
2275MB	8ms	7200	XP32275W	5	$199
4550MB	8ms	7200	VK34550W	5	$339
4550MB	8ms	7200	XP34550W	5	$469
4550MB	8ms	7200	VK304550W	5	$439
9100MB	8ms	7200	VK309100W	5	**$679**
9100MB	8ms	7200	XP39100W	5	$729
ULTRA-2 SCSI (80MB/sec)					
4550MB	8ms	7200	VK304550LW	5	$439
9100MB	8ms	7200	VK309100LW	5	**$679**
9100MB	8ms	7200	XP309100LW	5	$799
18200MB	8ms	7200	XP318200LW	5	$1299

Maxtor

ULTRA IDE		RPM	Model	Wty	Price
3240MB	9.7ms	5200	M83240D	3	$174
4320MB	9.7ms	5200	M84320D	3	$188
6480MB	9.7ms	5200	M86480D	3	$240
8400MB	9.7ms	5200	M88400D	3	$319

WESTERN DIGITAL

ULTRA IDE	Speed	RPM	Model	Wty	Price
2111MB	11ms	5400	AC12100	3	$148
3249MB	11ms	5400	AC23200	3	$159
4304MB	11ms	5400	AC34300	3	$187
5160MB	12ms	5400	AC35100	3	$206
6400MB	9.5ms	5400	AC36400	3	$259
ULTRA SCSI					
2670MB	8ms	7200	WDE2170N	5	$329
4360MB	8ms	7200	WDE4360N	5	$489
9105MB	8ms	7200	WDE9100N	5	$735
ULTRA WIDE SCSI					
2670MB	8ms	7200	WDE2170W	5	$329
4360MB	8ms	7200	WDE4360W	5	$489
9105MB	8ms	7200	WDE9100W	5	$735
ULTRA WIDE SCSI A/V					
9105MB	8ms	7200	WDE9100WAV	5	$799

HARD DRIVES

Seagate

- We have the best prices around on these hot drives.

ULTRA IDE		RPM	Model	Wty	Price
2110MB	11ms	5400	ST32110A	3	$145
2111MB	12ms	4500	ST32122A	3	$135
2520MB	11ms	5400	ST32520A	3	$154
3221MB	11ms	5400	ST33221A	3	$179
3227MB	12ms	4500	ST33232A	3	$168
4303MB	12ms	4500	ST34342A	3	$186
4321MB	11ms	5400	ST34321A	3	$199
4520MB	9.5ms	7200	ST34520A	3	$Call
6450MB	9.5ms	5400	ST36451A	3	$245
6530MB	9.5ms	7200	ST36530A	3	$Call
6531MB	11ms	5400	ST36531A	3	$259
8606MB	10ms	5400	ST38641A	3	$350
9140MB	9.5ms	7200	ST39140A	3	$Call
ULTRA SCSI					
2160MB	8ms	7200	ST32272N	5	$329
4550MB	8ms	7200	ST34555N	3	$309
4550MB	8ms	7200	ST34572N	5	$479
4550MB	7.5ms	10,000	ST34501N	5	$579
4550MB	7.1ms	7200	ST34573N	5	$609
9100MB	8ms	7200	ST19171N	5	$729
9100MB	8ms	10,000	ST19101N	5	$939
9190MB	7.1ms	7200	ST39173N	5	$609
18200MB	7.1ms	7200	ST118273N	5	$1569
23200MB	13ms	5400	ST423451N	5	$1669
ULTRA WIDE SCSI					
2160MB	8ms	7200	ST32272W	5	$359
4550MB	8ms	7200	ST34555W	3	$349
4550MB	8ms	7200	ST34572W	5	$479
4550MB	7.5ms	10,000	ST34501W	5	$599
9100MB	8ms	7200	ST19171W	5	$769
9100MB	8ms	10,000	ST19101W	5	$979
23200MB	13ms	5400	ST423451W	5	$1689
ULTRA WIDE DIFFERENTIAL SCSI					
2160MB	8ms	7200	ST32272WD	5	$419
4550MB	8ms	7200	ST34572WD	5	$609
4550MB	7.5ms	10,000	ST34501WD	5	$685
9100MB	8ms	7200	ST19171WD	5	$859
9100MB	8ms	10,000	ST19101WD	5	$1089
23200MB	13ms	5400	ST423451WD	5	$1759
ULTRA-2 SCSI (80MB/sec)					
4550MB	7.1ms	7200	ST34573LW	5	$639
4550MB	5.4ms	10,000	ST34502LW	5	$779
9100MB	5.4ms	10,000	ST39102LW	5	$1095
9190MB	7.1ms	7200	ST39173LW	5	$849
18200MB	7.1ms	7200	ST118273LW	5	$1599
18200MB	5.7ms	10,000	ST118202LW	5	$1899
SCA Ultra Wide Single Connector Attachment					
2160MB	8ms	7200	ST32272WC	5	$379
4550MB	8ms	7200	ST34572WC	5	$549
4550MB	7.5ms	10,000	ST34501WC	5	$639
9100MB	8ms	7200	ST19171WC	5	$789
9100MB	8ms	10,000	ST19101WC	5	$1039
SCA Ultra-2 Single Connector Attachment					
4550MB	7.1ms	7200	ST34573LC	5	$649
4550MB	5.4ms	10,000	ST34502LC	5	$789
9100MB	5.4ms	10,000	ST39102LC	5	$1119
9190MB	7.1ms	7200	ST39173LC	5	$869
18200MB	7.1ms	7200	ST118273LC	5	$1629
18200MB	5.7ms	10,000	ST118202LC	5	$1939
FC-AL Fibre Channel - Arbitrated Loop					
4550MB	7.1ms	7200	ST34573FC	5	$649
4550MB	7.5ms	10,000	ST34501FC	5	$679
4550MB	5.4ms	10,000	ST34502FC	5	$789
9100MB	8ms	7200	ST19171FC	5	$849
9100MB	8ms	10,000	ST19101FC	5	$1079
9100MB	5.4ms	10,000	ST39102FC	5	$1119
9190MB	7.1ms	7200	ST39173FC	5	$869
18200MB	7.1ms	7200	ST118273FC	5	$1629
18200MB	5.7ms	10,000	ST118202FC	5	$1939

HARD DRIVES

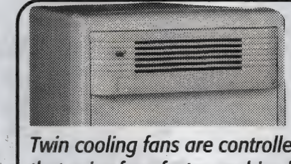
FUJITSU

No Excuses warranty
Fujistu replaces defective drives
within 2 business days.

ULTRA IDE	Speed	RPM	Model	Wty	Price
2100MB	10ms	5400	MP3021U	3	$139
3200MB	10ms	5400	MP3032U	3	$163
4370MB	10ms	5400	MP3043U	3	$187
5250MB	10ms	5400	MP3052U	3	$213
6480MB	10ms	5400	MP3064U	3	$246
ULTRA WIDE SCSI					
4550MB	7.5ms	7200	M3045W	5	$399
9100MB	7.5ms	7200	M3091W	5	$679
18200MB	8ms	7200	M3182W	5	$1389

IBM

ULTRA SCSI					
4330MB	8.5ms	5400	IBM34330N	5	$289
4550MB	7.5ms	7200	IBM34560N	5	$469
9100MB	7.5ms	5400	IBM39130N	5	$709
18200MB	7.5ms	7200	IDGHS18Z	5	$1729
ULTRA WIDE SCSI					
4330MB	8.5ms	5400	IBM34330W	5	$299
4550MB	7.5ms	7200	IBM34560W	5	$469
9100MB	7.5ms	5400	IBM39130W	5	$689
9100MB	6.3ms	10,020	IDVGS9U	5	$1009
18200MB	7.5ms	7200	IDGHS18U	5	$1749



Keep your hard drive running cool. Extend the life of your drive.

Twin cooling fans are controlled by heat sensisitive circuitry that spins fans faster as drive heats up. (VHDFAN) $30

LAPTOP DRIVES

HITACHI

Capacity	speed	RPM	Model	Wty	Price
2100MB	12ms	4464	DK225A21	3	$189
3200MB	12ms	4000	DK226A32	3	$279
4000MB	12ms	4000	DK227A41	3	$439
5000MB	12ms	4000	DK228A50	3	$529

TOSHIBA

Capacity	speed	RPM	Model	Wty	Price
1440MB	13ms	4200	MK1401MAV	1	$189
2167MB	13ms	4200	MK2104MAV	1	$199
3250MB	13ms	4200	MK3205MAV	1	$289
4000MB	13ms	4200	MK4006MAV	1	$419

IBM

Capacity	speed	RPM	Model	Wty	Price
3240MB	13ms	4000	DT23240	1	$409
4090MB	13ms	4000	DT24090	1	$519
5120MB	12ms	4900	DP25120	1	$639

2.5" Accessories

Diskmanager partitioning software (DISKMANAGER)	$20
2.5" IDE to 3.5" IDE adapter kit (IDEKIT-2.5)	$22
2.5" SCSI to 3.5" SCSI adapter kit (SCSIKIT-2.5)	$22
Parallel external drive case for 2.5" IDE (PPCASE2.5)	$119
PCMCIA external drive case for 2.5" IDE (PCMCIACASE25)	$169

PC CARD (PCMCIA) Drives and Accessories

Hard Drives	Call
Internal PC Card reader for desktop PC (PCD220)	$105
Internal reader & 1.4MB floppy combo (PYD110)	$129
External PC Card reader for desktop PC (PED220)	$149

DIRT CHEAP DRIVES 1-800-473-0960

DRIVES 800-473-0960

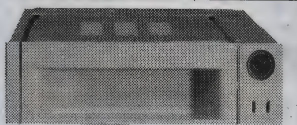
CALL M-F 8AM-8PM, SAT 9-3 CST
24HR ORDERING WWW.DIRTCHEAPDRIVES.COM

Removable Drive Brackets

- Turn any 3 1/2" drive into a removable
- Open face cartridges are compatible with Zip, Jaz, Syjet, Optical, Tape, etc.

Possible applications:

- Data Security:
  - Hard drives can be easily removed and locked away.
  - Backup from an existing drive to a removable hard drive for THE FASTEST backup speed available, then remove and store it away.
- Data Transfer:
  - Hard drives are much faster than other removable media solutions, moving your data to a removable hard drive and taking it to a service bureau is much faster than other solutions.
  - When working on large files on the office computer, transfer to the computer at home is easily accomplished in seconds.
- Drive/data sharing:
  - All drives of the same interface family can easily be moved among multiple computers.
  - A single copy of software can be loaded onto a drive and moved from one computer to the other.
  - Separate drives can be loaded with different operating systems and you can boot off of that operating system.
- Easy Upgrade/Replacement:
  - To upgrade your drive just unplug and install the new drive. It's so easy, there's no need to open the computer.
  - Easy drive exchange makes these drives perfect for RAID applications.



Transporter Removable Drive Brackets

Features built in cooling fan, SCSI ID switch, and gold plated connectors. Plastic construction with metal top and bottom covers on cartridge.

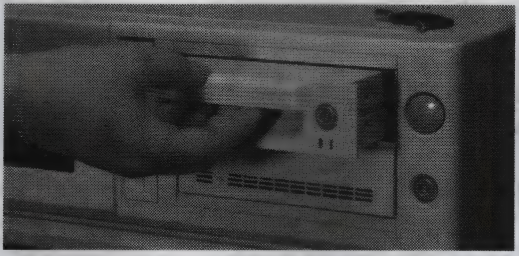
COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
IDE with plastic cartridge (TRANSIDE)	$59
SCSI with plastic cartridge (TRANSSCSI)	$65
EXTRA CARTRIDGE	
Plastic IDE (TRANSIDECA)	$33
Plastic SCSI (TRANSSCSICA)	$33
EXTRA FRAME	
IDE (TRANSIDEFR)	$37
SCSI (TRANSSCSIFR)	$40
ACCESSORIES	
Carrying case for cartridge (DPCASE)	$35

Smart STORAGE SOLUTIONS

Smart Storage Removable Drive Brackets

- Extremely rugged, all metal construction.
- Grab handles for easy removal and insertion.
- Industry standard 5 1/4" half height form factor.
- Gold plated connectors rated at 10,000 insertions.
- Built in premium ball bearing cooling fan.
- Key locking drive to prevent unwanted removal.
- LED displays drive ID on SCSI units, and Master/Slave configuration on IDE.
- Each SCSI drive module has an easy to access SCSI ID selector.

COMPLETE KIT	
Metal IDE (SSSDIAKIT)	$99
Metal IDE 1" opening (SSSDIA1KIT)	$105
Metal SCSI (SSSDISKIT)	$105
Metal SCSI 1" opening (SSSDIS1KIT)	$111
Metal SCSI 1.6" opening (SSSDIS6KIT)	$111
Metal WIDE SCSI (SSSDIWKIT)	$149
Metal WIDE SCSI 1" opening (SSSDI1KIT)	$155
Metal WIDE SCSI 1.6" opening (SSSDIW6KIT)	$155
EXTRA CARTRIDGE	
Metal IDE (SSSDICAS)	$59
Metal IDE 1" opening (SSSDICA1)	$65
Metal SCSI (SSSDICSS)	$60
Metal SCSI 1" opening (SSSDICS1)	$66
Metal SCSI 1.6" opening (SSSDACSD)	$66
Metal WIDE SCSI (SSSDICWS)	$79
Metal WIDE SCSI 1" opening (SSSDICW1)	$85
Metal WIDE SCSI 1.6" opening (SSSDICWD)	$85
EXTRA FRAME	
Metal IDE (SSSDIFA)	$59
Metal SCSI (SSSDIFS)	$69
Metal WIDE SCSI (SSSDIFW)	$89
ACCESSORIES	
Carrying case for cartridge (DPCASE)	$35
Cover plate to cover opening when cartridge is removed(SSSFPLATE)	$15



DATA-PORT Removable Drive Brackets

High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Cartridges available in plastic (metal top and bottom covers), or all metal construction.

COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
IDE with plastic cartridge (DP2200A)	$79
IDE with metal cartridge (DP2200AM)	$99
SCSI with plastic cartridge (DP2200S)	$85
SCSI with metal cartridge (DP2200SM)	$105
SCSI with open face plastic cartridge (DP2200R)	$141
WIDE SCSI with plastic cartridge (DP2200W)	$129
WIDE SCSI with metal cartridge (DP2200WM)	$149
ULTRA WIDE SCSI plastic cartridge (DP2200UW)	$139
ULTRA WIDE SCSImetal cartridge (DP2200UWM)	$159
EXTRA CARTRIDGE	
Plastic IDE (DPACART)	$39
Metal IDE (DPACARTM)	$59
Plastic SCSI (DPSCART)	$40
Metal SCSI (DPSCARTM)	$60
Plastic WIDE SCSI (DPWCART)	$64
Metal WIDE SCSI (DPWCARTM)	$84
Plastic ULTRA WIDE SCSI (DPUWCART)	$69
Metal ULTRA WIDE SCSI (DPUWCARTM)	$89
Plastic SCSI open face (DPSCARTR)	$96
EXTRA FRAME	
Metal IDE (DPAFRAME)	$49
Metal SCSI (DPSFRAME)	$54
Metal WIDE SCSI (DPWFRAME)	$75
Metal ULTRA WIDE SCSI (DPUWFRAME)	$80
ACCESSORIES	
Carrying case for cartridge (DPCASE)	$35
Cover plate to cover opening when cartridge is removed(DPFPLATE)	$10

TAPE BACKUP

Seagate

3.2GB TR3 Minicartridge

- Includes cable, manual, DOS/Win backup software. Get 4.4Gig capacity with a TR3EX tape $30 w/ drive

Internal	Alone	With HD Purchase	Extra Tapes w/ drive
3.2Gig (TST3200RFT)	$179	$175	$29 (TR3)

1FREE tape & high speed controller included with this drive

External-Runs off parallel printer port. (no free tape)

3.2Gig (TST3200RP)	$189	$185	$29 (TR3)

8Gig TR4 Minicartridge

- Internal drive will mount in a 3 1/2" or 5 1/4" bay.
- Up to 54MB/min. Includes DOS/Win backup software.

ATAPI (IDE)	Alone	With HD Purchase	Tapes w/ drive
8gig Internal (STT28000A)	***$259***	***$249***	***$31*** (TR4)
SCSI			
8gig Internal (STT28000N)	***$295***	***$290***	***$31*** (TR4)
8gig External (STT28000X)	***$365***	***$360***	***$31*** (TR4)

HEWLETT PACKARD

5Gig	Alone	With HD Purchase	Tapes w/ drive
Internal (C4355A)	***$199***	***$245***	***$29*** (TR4)
Parallel External (C4362A)	***$249***	***$240***	***$29*** (TR4)

We can install your SCSI tape drive in an external enclosure for $90. (DLT & Autoloaders $140)

EXABYTE

			extra tapes with drive purchase
7-14Gig	8mm, 120MB/min, ELIANT820	$1399	$16 (DAT160M8MM)
7-14Gig	8mm, 60MB/min, EXB8700LT	$669	$16 (DAT160M8MM)
7-14Gig	8mm, 60MB/min, EXB8700SW	$939	$16 (DAT160M8MM)
20-40Gig	8mm, 360MB/min, EXB8900	$2999	$95(AME170)
70-140Gig	8mm, 60MB/min, EXB10H	$4099	$16 (DAT160M8MM)

HEWLETT PACKARD

We include 5 1/4" mounting hardware with HP DAT!

2Gig	DAT, 11MB/min, C1534AI	$579	$10(DAT90M)
2-4Gig	DAT-DC, 42MB/min, C1536AI	$609	$10(DAT90M)
4-8Gig	DDS-2 DAT, 60MB/min, C1599AI	$759	$20(DAT120M)
12-24Gig	DDS-3 DAT, 120MB/min, C1554AI	$1069	$32(DAT125M)
72-144GB	DDS-3 DAT, 120MB/min, C5648A	$2699	$32(DAT125M)

Seagate

We include 5 1/4" mounting hardware with Seagate DAT!

2-4Gig	DAT-DC, 66MB/min, STD24000N	$519	$10(DAT90M)
4Gig	Mini, 29MB/min, STT28000N	$295	$31(TR4)
4-8Gig	DDS-2 DAT, 66MB/min, STD28000N	$739	$20(DAT120M)
12-24Gig	DDS-3 DAT, 132MB/min, STD224000N	$989	$32(DAT125M)
25-50Gig	AIT, 360MB/min, STA250000N	$2799	$89 (AIT170MTAPE)
48-96Gig	DDS-2 DAT, 48MB/min, STL496000N	$2299	$20(DAT120M)

SONY

We include 5 1/4" mounting hardware with Sony DAT !

4-8Gig	DDS-2 DAT, 44MB/min, SDT5000AI	$639	$28(DAT120M)
4-8Gig	DDS-2 DAT, 90MB/min, SDT7000AI	$659	$28(DAT120M)
12-24Gig	DDS-3 DAT, 144MB/min, SDT9000AI	$939	$42(DAT125M)
32-64Gig	DDS-2 DAT, 90MB/min, TSL7000X	$2089	$28(DAT120M)

Quantum

15-30Gig DLT, 150MB/min, DLT2000XT	$2349	$49(DLT3XT)
20-40Gig DLT, 180MB/min, DLT4000	$2569	$83(DLT4)
35-70Gig DLT, 600MB/min, DLT7000	$5499	$83(DLT4)
75-150Gig DLT loader, 150MB/min, DLT2500XT	$4429	$49(DLT3XT)
100-200Gig DLT loader, 180MB/min, DLT4500	$5499	$83(DLT4)
105-210Gig DLT loader, 150MB/min, DLT2700XT	$6099	$49(DLT3XT)
140-280Gig DLT loader, 180MB/min, DLT4700	$7449	$83(DLT4)

10-20GB tapes (DLT3) $41 DLT Cleaning tape (DLTCLEAN) $48
Magazine for 2500/4500 (DLT5MAG) $71, for 2700/4700 (DLT7MAG) $91

BACKUP SOFTWARE

Indigita	
TapeTrax software allows most SCSI tape drives to be used as a standard disk drive under Win95 (TAPETRAX)	$99
TapeDisk	
TapeDisk software allows most SCSI tape drives to be used as a standard disk drive under DOS, Win3.1, or Win95 (TAPEDISK)	$129
NovaStor	
NovaWorks CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, Macintosh, and OS/2 including WARP Compatible with SCSI, IDE, and QIC drives (NOVACD)	$69
Novell NLM single server (NOVANETJR)	$139
Novell NLM multi server and 50 users (NOVANLM50)	$249
Novell NLM multi server and unlimited users (NOVABACKNLM)	$369
Seagate/Arcada	
Direct Tape software allows most SCSI tape drives to be used as a standard disk drive under DOS, Win3.1, or Win95. (SEADIRECT)	$69
Backup Exec Windows 95 (BUWDWD)	$75
Backup Exec Windows NT workstation (BENTW)	$199
Backup Exec Windows NT single server (BENTSE)	$459
Backup Exec Windows NT enterprise (BENTEE)	$849
Backup Exec Netware Windows workstation (SBENWWK)	$105
Backup Exec Netware single server & 25 users (BENETWARE)	$329
Backup Exec Netware single server & unlimited users (BENETWARESE)	$459
Backup Exec Netware enterprise (BENETWAREEE)	$919
Dantz	
Retrospect for Macintosh (RETROSPECT)	$79

DIRT CHEAP

iomega SUPER SALE! iomega

100MB ZIP

ZIP

- Includes 1 free disk!

Internal IDE for PC (ZIP100AC)	$115
Internal SCSI for PC (ZIP100I)	$145
External SCSI for PC or Mac (ZIP100)	$145
External for PC parallel port (PPZIP100)	$145
Zip+ for parallel and SCSI (PPZIP100)	$189
100MB disks (ZIP100C) Qty 2-9/Qty 10+	$16/$13

1Gig JAZ

JAZ

- Includes 1 free disk!
- 10ms read, 12ms write, 5400rpm, 256K buffer.

Internal SCSI with 1 disk (JAZI)	$269
External SCSI in Iomega case with 1 disk (JAZX)	$289
1GB Disks (JAZC1GIGPC) Qty 2-9/Qty 10+	$81/$79

2Gig JAZ

- Includes 1 free disk!
- Backwards compatible with Jaz 1Gig disks.
- 10ms read, 12ms write, 5394rpm, 512K buffer.

Internal SCSI with 1 disk (JAZ2I)	$539
External SCSI with 1 disk (JAZ2X)	$639
2GB Disks (JAZC2GIGPC) Qty 2-9/Qty 10+	$145/$142

JAZ ACCESSORIES

ISA Controller (JAZJETISA)	$89
PCI Controller (JAZJETPCI)	$99
PCMCIA Type II Adapter (JAZPCMCIA)	$124
Parallel Adapter Jaz Traveller (JAZPARALLEL)	$49
Jaz Unleashed portable power pack(JAZBATTERY)	$99

7Gig Ditto Max

TAPE

- Includes software for Win 3.1 and 95.
- *Flash!File* technology delivers 5 second average access to files you store in the *Flash!File* area!
- Internal includes Ditto Dash Accelerator card.
- Compatible with 3GB, 5GB, and 7GB tapes.

Internal (DITTOMAXI)	$189
External for Parallel Port (DITTOMAXX)	$189

Tapes 3GB (DITTO3) $19, 5GB (DITTO5) $25, 7GB (DITTO7) $29

10Gig Ditto Max Professional

- Includes software for Win 3.1 and 95.
- *Flash!File* technology delivers 5 second average access to files you store in the *Flash!File* area!
- Internal includes Ditto Dash Accelerator card.
- Internal also includes software for NT 4.0.
- Compatible with 3GB, 5GB, 7GB, and 10GB tapes.

Internal (DITTOMAXPRO)	$289
External for Parallel Port (DITTOMAXPRX)	$289

Tapes 5GB (DITTO5) $25, 7GB (DITTO7) $29, 10GB (DITTO10) $33

PIONEER SLOT LOAD CD-ROM

No more awkward caddies or trays!

CD

24X IDE $79

New 32X is 70ms!

32X IDE $95

32X SCSI $125

DVD READER

SMART STORAGE SOLUTIONS

- Award winning kit complete with MPEG-2 decoder
- DVD-2 reader, 150ms • 20X CD ROM, 90ms
- IDE interface • Supports CDR, and CDRW media

Complete Kit (SSSDVD2KIT) $279

HITACHI GD-2000

- DVD-2 reader, 150ms • 20X CD ROM, 90ms
- IDE interface • Supports CDR, and CDRW media

Bare Drive (GD-2000) $179

TOSHIBA SD-M1102

- DVD-2 reader, 160ms • 24X CD ROM, 105ms
- IDE interface • Supports CDR, and CDRW media

Bare Drive (SDM1102) $195

QI CINEMASTER

- Top of the line PCI based MPEG-2 decoder board (CINEMASTER) $129 or $119 with any DVD drive

WAVELINK PC TO TV TRANSMITTER

- View DVD movie titles on TV without the use of wires.
- 2.4GHz signal penetrates walls, floors, and ceilings.
- Operates up to 300 feet away.
- Sends and receives crisp color and stereo audio.
- Also works with many other video/audio sources. (PCTOTV) $169 or $159 with any DVD drive

CREATIVE LABS

- Encore DVD kit includes: 150ms DVD-2 drive
- Reads CDs at 20X, 90ms • MPEG-2 decoder
- 3 DVD Titles (CLDVD2KIT) $285

PIONEER DVD RECORDER NEW!

- Record your own DVDs!

Complete kit (DVRS101) $16,895 Media (DVDR $55)

IDE CD ROM

Speed	Brand	Model	ms	Buffer	Int	Kit
16X	Mitsumi	CRMCFX16X	120	256K	$69	$99
24X	Teac	CD524E	95	128K	$79	$109
24X	Pioneer	DRX24X	90	128K	$79	$109
24X	Mitsumi	CRMCFX24X	90	256K	$79	$109
24X	Toshiba	XM6102B	85	256K	$81	$111
24X	NEC	CDR1800	100	128K	$81	$111
32X	Teac	CD532E	84	128K	$89	$119
32X	Toshiba	XM6202B	80	256K	$89	$119
32X	Mitsumi	CRMCFX32X	85	256K	$90	$120
32X	Pioneer	DRU504	70	128K	$95	$125
32X	NEC	CDR1900	80	128K	$95	$125

IDE CD CHANGERS

Speed	Brand	Model	ms	# Disks	Int	Kit
8X	NEC	CDR4X8	165	4	$89	$119
16X	Nakamichi	MJS16A	130	5	$149	$179

Kit includes drive, CD ROM controller, & data cable.

ACCESSORIES

Buy a CD drive & sound card & get a FREE audio cable.

Terratec Sound System Base 1, 3D sound (TTBASE1)	$45
Creative Labs Sound Blaster AWE64 (SB64VALUE)	$99
Creative Labs Sound Blaster AWE64 (SB64AWEGOLD)	$180
Universal sound cable (AUDIOMIX)	$9
IDE CD ROM case for parallel printer port (PPCASECD)	$89
IDE CD ROM case for PCMCIA port (PCMCIACD)	$189

CD DUPLICATORS

Copywriter attaches to PC, compatible with Win 95 or NT. Once Master is created, simultaneous copies can be made from your hard drive or the built-in CD Reader. Writers are 4X.

2 Drive unit, makes 2 copies at once (CPYWRITE241)	$1999
4 Drive unit, makes 4 copies at once (CPYWRITE441)	$3359
7 Drive unit, makes 7 copies at once (CPYWRITE741)	$5399

SCSI CD ROM

Speed	Brand	Model	ms	Buffer	Int	Ext
12X	Plextor	PX12TS(tray)	105	512K	$175	$265
12X	Plextor	PX12CS(caddy)	105	512K	$209	$299
16X	NEC	CDR1610	100	128K	$99	$189
20X	Plextor	PX20TS	95	512K	$185	$275
24X	NEC	CDR1810	85	128K	$109	$199
32X	Teac	CD532S	85	128K	$119	$209
32X	Toshiba	XM6201B	85	128K	$119	$209
32X	NEC	CDR1910	85	128K	$119	$209
32X	Pioneer	DRX32S	70	128K	$125	$215
32X	Plextor	PX32TS(tray)	85	512K	$219	$309
32X	Plextor	PX32CS(caddy)	85	512K	$249	$339

SCSI CD CHANGERS

Speed	Brand	Model	ms	# Disks	Int	Ext
16X	Nakamichi	MJS16	130	5	$219	$309
24X	Pioneer	DRM6324X	90	6	n/a	$439

ACCESSORIES

Universal sound cable (AUDIOMIX)		$9
CD driver software for Macintosh (RAPIDPD)		$19
CD Caddies (CDCADDY)	5-19 $5.9	20+ $3.4
CD Jewel Cases (CDJEWEL)	5-19 $4	20+ $1.2
Pioneer 6 disk magazine (DRMA600)	2-4 $29	5+ $24

CD ROM TOWERS

Smart STORAGE SOLUTIONS

SCSI Towers			4 Drives	7 Drives
NEC	16X	100ms	$559	$949
Plextor	20X	95ms	$1069	$1899
NEC	24X	85ms	$659	$1099
Toshiba	32X	85ms	$719	$1199
Nakamichi	16X	5 disk changer	$1199	$2289

Plug and Play Ethernet Towers

- Can be used simultaneously from Win 95, NT, OS/2, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS.

	7 Drive 10 baseT	7 Drive 10/100	13 Drive 10 baseT	13 Drive 10/100
NEC-16X	$1659	$1899	$2899	$3059
Plextor-20X	$2679	$2899	$4779	$4939
NEC-24X	$1819	$2059	$3179	$3339
Toshiba-32X	$1929	$2169	$3389	$3549
Nakamichi-16X	$3059	$3299	$5079	$5239

Nakamichi holds 5 disks per drive. Token Ring & other models also available.

Super Sounding Speaker Sets

Professional speakers with Bose style swivel speakers and separate subwoofer. "Delivered the best listening experience" 9/97 Computer Shopper

25 Watt (SPEAKERJR) $99 35 Watt (SPEAKERPRO) $129

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DIRT CHEAP DRIVES 1-800-473-0960

May, 1998 Computer Shopper

DRIVES 800-473-0960

CALL M-F 8AM-8PM, SAT 9-3 CST

24HR ORDERING WWW.DIRTCHEAPDRIVES.COM

CONTROLLERS

DPT Distributed Processing Technology

Other DPT products available.
Call for pricing.

PM2044UB	**PCI Ultra SCSI**	**$199**
PM2044U	PCI Ultra SCSI Kit	$249
PM2044UWB	**PCI Ultra WIDE SCSI**	**$249**
PM2044UW	PCI Ultra WIDE SCSI Kit	$279
PM2144UW	PCI Ultra Wide SCSI	$439
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RC4040/4	RAID/Caching Module w/4MB ECC	$559
SM4000/4	4MB ECC SIMM	$259
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PM3334UW	PCI Ultra WIDE SCSI RAID 0, 1, 5	$1079
PM3334UW/2	2 channel version of above	$1249
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1520	ISA 16Bit SCSI, Floppy	$79	$139
1542	ISA 16Bit Busmaster SCSI, Floppy	$189	$245
2940U	PCI 32Bit Ultra SCSI (Bus Master)	$190	$255
2940UW	PCI 32Bit Ultra WIDE SCSI (Bus Master)	$215	$285
2940U2W	PCI 32Bit Ultra-2 WIDE SCSI (Bus Master)		$399
1505	ISA 16Bit SCSI (no hard drive support)		$65
1515	ISA 16Bit SCSI		$89
2742T	EISA 32Bit SCSI, Floppy (Twin Channel)		$349
2742W	EISA 32Bit WIDE SCSI, Floppy		$399
2920	PCI 32Bit SCSI (PIO)		$145
2944WD	PCI 32Bit WIDE Diff. SCSI (Bus Master)		$395
T358	EPP Parallel to SCSI adapter (SCSI-1 connector)		$125
T358A	EPP Parallel to SCSI adapter (SCSI-2 connector)		$130
T1450A	PCMCIA to SCSI (WIN95 only)		$109
T1460	PCMCIA type 2, 3, or 4 to SCSI		$175
A3940	Twin Channel PCI SCSI (14 Drives)		$379
A3940UW	Twin Channel PCI Ultra WIDE SCSI $469 or $449 w/HD		
AAA131	PCI RAID controller		$449
AAA133	PCI WIDE RAID 3 channel controller		$719
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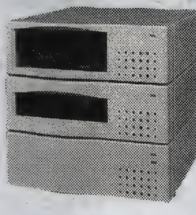
1.3Gig	TJ1.3	5.25", 1024K	$33	$31	$29
2.3Gig	TJ2.3	5.25", 512K	$45	$43	$41
2.6Gig	TJ2.6	5.25", 1024K	$45	$43	$41

DRIVE CASES



3 1/2" Drive Case

SCSI closed face (3.5CASE)	$75
SCSI 1" open face (3.5CASE1)	$75
SCSI 1.6" open face (3.5CASE1.6)	$75
Wide SCSI closed face (3.5CASEW)	$109
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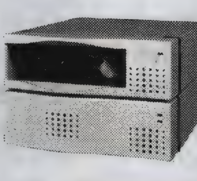
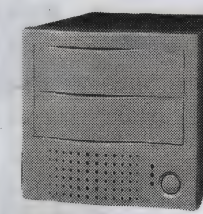
Parallel/IDE 1"open face(PPCASEHD1)	$99
PCMCIA/IDE closed face(PCMCIA3.5)	$139
PCMCIA/IDE 1"open face(PCMCIA3.51)	$139



5 1/4" Drive Case

SCSI closed face (HHCASET)	$75
SCSI open face (HHCASEOPENT)	$75
Wide SCSI closed face (HHCASETW)	$109
Parallel/IDE closed face (PPCASECDC)	$99
Parallel/IDE open face(PPCASECD)	$99
PCMCIA/IDE closed face(PCMCIACDC)	$139
PCMCIA/IDE open face(PCMCIACD)	$139



Dual Drive Case

Holds two half height or one full height drive.

SCSI (FHCASE)	$109
Wide SCSI (FHCASEW)	$169

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Wide SCSI (DUALCASETW)	$269

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Wide SCSI (TOWERCASETW)	$469

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SCSI $1499 or Wide SCSI $1719

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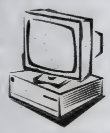
BUYING ADVICE

Desktop Systems



First Assessment: Ask yourself the two biggest questions that will guide your PC buying decision: What do you intend to do with the computer, and how much are you willing to spend? Consider your answers carefully while assessing systems component by component to make sure the parts will add up to a harmonious whole.

Pricing's Primary: If a tight budget is your main concern, and you intend to use your PC mainly for standard office applications, an entry-level desktop likely hovering at or near the $1,000 price point and powered by a Cyrix MediaGX or 6x86MX, an AMD 200MHz K6, or a Pentium MMX CPU should serve you well. However, you'll likely sacrifice speed and cutting-edge component features.

Middle of the Road: If you're looking for a midrange system, you'll get a significant amount of power and longevity from a PC built around a 233MHz or 266MHz AMD K6 or Intel Pentium II processor.

Top Speed: If you need cutting-edge power for demanding multimedia programs or games, and are buying with an eye toward delaying obsolescence as long as possible, opt for a 300MHz or faster Pentium II or K6 system. For Pentium IIs, look for Intel's 440LX chip set, which delivers performance-enhancing perks such as support for SDRAM, Ultra ATA hard drive data transfers, and the AGP graphics architecture that promises (though it's yet to fully deliver) faster screen redraws than the venerable PCI bus.

Indispensable Memory: Insist on a minimum of 32MB of RAM in any new desktop; consider 64MB for a system running Windows NT or graphics- or video-intensive work under Windows 95. Check that the PC offers an accelerated form of RAM such as SDRAM or EDO DRAM instead of vanilla DRAM, and look for at least 512K of secondary or level 2 (L2) cache. (Current Pentium II CPUs contain a built-in 512K cache.)

Spacious Storage: Today's best hard drive values, in the 4GB to 6.5GB range, should give you room to spare. If your work involves heavy-duty image or video editing, consider an even bigger drive. If you are shopping in the bargain bins, don't settle for anything less than 1.6GB. Opt for an Enhanced IDE drive unless super-demanding work such as professional multimedia production requires SCSI throughput and performance. A removable storage option—such as an Iomega Zip or Jaz, an Imation LS-120, or a SyQuest SparQ—gives you additional, easy storage expansion as well as an essential means of backup.

Screen Test: A 15-inch monitor is the smallest that will satisfy your eye—think twice before settling on a 14-inch display, despite the form factor's popularity with the cheap-PC set. A 17-inch screen is ideal for most users; consider a 19-inch CRT if you have the need (but not the budget or desk space) for bigger views.

Drive Your Graphics: Whether PCI or AGP, any new PC's graphics accelerator should offer 3-D acceleration and at least 2MB (preferably 4MB) of display memory. Stick to card- or slot-based rather than motherboard-mounted graphics subsystems for easy upgradability.

CD-ROM or DVD-ROM? More and more system vendors are offering standard or optional DVD-ROM drives, but the lack of non-movie software means you won't miss much by bypassing DVD on the desktop right now unless your PC will be the core of a combined computing/home-theater setup. Settle instead for a 12x or faster CD-ROM drive. If you do want DVD, look for a second-generation or later DVD-ROM drive with Multi-Read support, as well as dedicated MPEG-2 video and AC-3 audio-decoding hardware—software decoding solutions can sap the strength of the fastest CPU.

Communications Channel: Insist on a 56Kbps modem only if your Internet provider supports the new V.90 56Kbps protocol, or if a 56Kbps modem is no costlier than an equivalent 33.6Kbps unit. (Note that your local line conditions will also have to cooperate for you to attain faster-than-33.6Kbps speeds.) Otherwise, say yes to a software-upgradable 33.6Kbps modem.

Universal Expansion: Look for adequate slots and drive bays for future expansion. Parallel, serial, keyboard, mouse, and game ports should be standard equipment, but check for one or more Universal Serial Bus (USB) ports for plugging in the peripherals of tomorrow.

Give Me Support: Evaluate a vendor's support package carefully. Insist on a 30-day, no-restocking-fee return policy, a three-year parts-and-labor warranty, and tech support you can reach affordably and conveniently. If sending away your PC for service is a major inconvenience, investigate a vendor's onsite repair options. ▼

Notebooks

Powerful Values: Expect an MMX processor in any new notebook you buy. Look for Intel's 133MHz MMX Pentium in entry-level models, with the 150MHz and 166MHz versions quickly joining it in the value segment of the market.

Super CPUs: High-end notebook customers can choose among 200MHz, 233MHz, and 266MHz MMX Pentiums, but note that these chips' lofty speeds are within reach of the value-minded, too. Some notebooks equipped with 200MHz or faster chips already sell for less than $3,000, and status-seekers can opt for new Pentium II- and AGP-equipped portables.

Memory: Insist on a minimum of 16MB of EDO DRAM or the quicker SDRAM, with more memory—preferably at least 32MB—as you climb the notebook price ladder. If you expect to upgrade before long, do so at purchase time; it's cheaper and easier to let the vendor perform the work.

Cache Counts: Look for a secondary (called level 2, or L2) cache on any notebook you're considering. Its presence is more important than the capacity, but expect 256K of cache in a value model and 512K in a top-shelf notebook.

Don't Skimp on Storage: Multigigabyte hard drives are swiftly becoming the notebook norm, so don't settle for less than 1.4GB of storage capacity. A removable hard drive can give you flexibility as well as easy upgradability.

Display Technology: Presentation makers and heavy graphics users will want an active-matrix (also called thin-film transistor, or TFT) screen, which delivers wide viewing angles and bright, crisp images. However, if your work is wedded to typical office applications, some of the latest dual-scan displays can deliver more-than-satisfactory views at significant savings.

BUYING ADVICE

Screen Size: When assessing laptop displays, think big. Your eyes will appreciate the 12.1-inch, 800x600-pixel LCDs now common even in value notebooks, but you can see more for a little more money: 13.3- and 14.1-inch, 1,024x768-resolution displays, already found in top-of-the-line notebooks, are headed toward the mobile mainstream.

Display Memory: Insist on at least 2MB of display memory if you want to work in true color (24-bit) SVGA (800x600) mode. You'll need 4MB to display true color in XGA (1,024x768) mode, or to run DVD or 3-D applications on your notebook.

Mobile Modularity: Make sure the notebook's CD-ROM and floppy drive configurations fit the way you'll use the system. If you'd sometimes like to save weight by leaving one or both drives behind, consider a design with removable, hot-swappable drive modules or a detachable expansion base.

The Right Connections: Besides the usual parallel, serial, keyboard/mouse, and monitor ports and a couple of PC Card slots (preferably with CardBus and Zoomed Video support), keep an eye out for an infrared (IR or Fast IR) port for wireless data transfers; a video-out port for routing presentations to a TV set or VCR; and one or more USB ports. A built-in modem that eliminates the need for a PC Card modem is a plus.

Power to Last: Lithium-ion batteries have replaced nickel metal-hydride cells in all but the lowest-priced notebooks. Assess battery life by comparing manufacturer-estimated run times, but remember that your favorite applications and usage patterns may deliver wildly different real-world results.

DVD Done Right: If you opt for a DVD-ready model, be sure to ask how it handles the format's MPEG-2 video compression. Software decoding is less expensive than hardware-based playback, but it can result in poor playback quality.

Guarantees and Warranties: Make a 30-day, no-questions-asked, money-back guarantee without restocking fees the first item on your direct-shopping checklist. Two or three years of warranty coverage—plus possibly an extended warranty option—will ensure that your new notebook keeps you computing into the next millennium. ▼

Displays

Image Size: Vendors' advertised diagonal screen measurements now refer to monitors' maximum viewable image sizes, not just CRT sizes. But comparing different image sizes on same-size CRTs can be splitting hairs and may even be misleading. It's smartest to settle on a CRT size and not worry about minor variations in viewable screen area between different models.

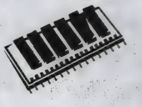
15 Inches: Minimum Daily Requirement: Available at bargain prices and adequate for everyday business applications, 15-inch monitors are a decent choice for 640x480 VGA or 800x600 SVGA resolution. Don't consider anything smaller in a CRT-based monitor.

17 Inches: The Heart of the Market: For wider views of spreadsheets and presentations, or occasional graphics or desktop-publishing work, consider a 17-inch monitor. Now available for well under $500, 17-inch models are replacing 15-inch screens as mainstream desktop displays. They're ideal for working at 1,024x768 XGA resolution or for occasional stints at 1,280x1,024.

19 Inches: The Sweet Spot: While 20-inch and larger monitors remain the province of CAD or publishing professionals with big budgets, consider a 19-inch CRT if your job involves serious DTP or graphics duty or if you like to switch between multiple application windows. These monitors' physical sizes and price tags overlap those of 17-inch displays, and their screens are spacious enough to view images comfortably at 1,600x1,200 resolution.

Short Necks Save Space: Keep an eye out for short-neck 17-, 19-, and 21-inch picture tubes that reduce a monitor's depth measurement—

Graphics Cards



Starting Points: Your system architecture will determine whether you buy a PCI or AGP graphics card—the latter is preferable for longevity and sake of performance, but irrelevant for motherboards without AGP support. Whichever the interface, look for a 64- or 128-bit graphics card (meaning the accelerator architecture, not the 32-bit interface of PCI cards) with at least 4MB of onboard display memory. Video acceleration and scaling should be standard features even at the low end.

Choicest Chips: Grill the vendor to make sure your new card carries the latest generation of whichever graphics accelerator chip it has. Often, two generations of the same silicon wafer can coexist in the marketplace, with the later generation having extra features or enhanced performance.

Refresh Rate: Make sure your new graphics card can synchronize with your monitor to provide at least a 75Hz refresh rate for the most demanding color depth and resolution at which you'll be working.

2-D Treats: For high-end 2-D applications such as image editing and desktop publishing, examine the bundled software utility toolkit for on-the-fly resolution and color-depth switching, virtual windows, pan and zoom functions, and color-calibration utilities. Windows NT users should check that the driver's feature set for their OS matches that offered for Windows 95.

Memory Types: Mainstream, 3-D-enabled boards that will be used mainly for business applications don't demand the added expense of fast VRAM memory—a board using an enhanced DRAM variant such as EDO DRAM or SGRAM is a better value. VRAM is most important for high-resolution, true-color image editing and specialized 3-D performance.

Room to Upgrade: Consider whether you're likely to need a memory upgrade within the board's lifetime. Some boards come with 4MB but cannot be upgraded. Most, however, will let you upgrade to at least 8MB, and some stretch that limit to 16MB.

At the High End: High-end 3-D boards should provide equivalent support and utilities for both Windows NT and Win 95, as well as drivers for APIs both in Microsoft's DirectX and in proprietary schemes from graphics-chip makers. Top-of-the-line models should support simultaneous dual-screen output.

Player's Choice: If you're seeking a 3-D board primarily for game playing, look for a card that supports your favorite games or even comes bundled with optimized versions. Insist on Direct3D support and 4MB, if not 8MB, of fast memory.

Video and TV Support: Video-capture, TV-out (for playing games or showing presentations on a large-screen TV set), and TV-tuner functions can be found as integrated features, daughtercard options, or independent add-ons. If you opt for the last—a stand-alone capture or tuner board—make sure the vendor has tested it for compatibility with your graphics card.

Before You Buy: Check the fine points of the card's warranty, as well as the availability of tech support. Also check the date of the last-issued driver for your card and operating system (normally downloadable from the manufacturer's Web site). ▼

which is roughly equal to the diagonal measurement on normal CRTs—by about 2 inches. These more compact models are ideal if desk-space real estate is at a premium.

Refresh Rates: For a 17-inch or smaller monitor, insist on a minimum noninterlaced refresh rate of 75Hz at the highest resolution you'll use. Look for at least 85Hz on a 19-inch or larger monitor.

Perfect Pitch: For the measurement commonly known as dot pitch, the smaller the better, with 0.28mm a common upper limit and 0.26mm or lower yielding the sharpest images. Make sure you're comparing apples with apples when looking at different monitors' figures for dot pitch (on dot-mask CRTs), stripe pitch (on aperture-grille CRTs), horizontal dot pitch (on nonstandard dot masks), or slot pitch (on slot-mask CRTs). Also calculate whether the monitor's pitch and screen area are adequate to deliver the highest resolution claimed for the model.

Screen Shape: The ideal screen shape is a matter of personal preference, but avoid old-fashioned spherical CRTs, which visibly distort the image at the edges. Note that flat and flat-square CRTs are not the same.

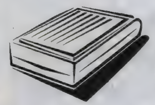
The LCD Option: If you've got cash to spare but not desk space, consider a desktop LCD panel instead of a conventional CRT monitor. You'll pay a premium ($2,000 to $3,000 for a 14- to 15-inch XGA panel), but will enjoy distortion-free viewing and better image quality at smaller relative screen sizes. Note that prices for active-matrix models are dropping, and the desktop passive-matrix panels expected to emerge this year should be only half as costly.

Universal Serial Bus (USB): USB-equipped monitors are beginning to appear in a couple of configurations: The monitor itself may use a USB connection to let you control settings with software, or its base may contain a USB hub that serves as a place to plug in other USB peripherals such as keyboards, scanners, and cameras. USB will become more of a must-have feature once Windows 98 is released.

Graphics Card Support: Make sure your graphics card supports the highest resolution, color depth, and refresh rate you plan to display on your new monitor. Insist on a monitor with digital controls, which save your preferred screen settings for different resolutions, and look for easy-to-navigate onscreen controls for less frequently used functions.

Before You Buy: Make sure the vendor provides a 30-day no-questions-asked money-back guarantee, free of restocking fees. Check any warranty carefully to be sure exactly what it covers and for how long. ▼

Hard Drive Upgrades



Buy Big: With desktop hard drives offering massive storage space for bargain prices, don't skimp on drive capacity. An extra gigabyte or two often adds relatively little to the cost of an otherwise comparable drive, so it's never been safer to err on the side of excess.

Replacing or Adding? Consider whether you'll be using your new drive in addition to your existing hard drive or in place of it. The answer will affect how big a drive you should buy.

IDE Advantages: Look for the biggest bargains with internal IDE drives. These drives plug into the Enhanced IDE connectors found on current PC motherboards, with no need for costly SCSI adapters. Prices for internal IDE drives now hover around 10 cents per megabyte for low-capacity (2GB) drives, and closer to a nickel per megabyte for 4GB to 6.5GB drives.

IDE Equals ATA: Drive vendors have developed a jumble of jargon around the different characteristics of IDE and ATA drives. Remember that the two acronyms are fully compatible, and that any new IDE/ATA drive should support at least 16.6MB/sec burst data transfers (if not 33.3MB/sec transfers under UltraDMA), and your shopping should become tangle-free.

Why SCSI? SCSI drives are ideal for duty in network servers, power-user workstations, and external-drive configurations. SCSI drives handle simultaneous data requests better and offer the roomiest current single-drive capacities, but cost more per megabyte than equivalent EIDE drives.

Internal or External? Internal hard drives are usually better values—they're cheaper than equivalent externals and don't eat up extra desk space. However, an external drive can be handy for sharing the drive among several systems. Installing an external drive is usually much easier, too.

Install-Ready: Choosing an internal drive? Check that your PC has an uninhabited, appropriately sized drive bay. A 3.5-inch drive can fit in either a 3.5- or 5.25-inch bay, but you may need to order a mounting kit to use the latter.

Top Speed: Don't worry too much about slight differences between different drives' average access times or spin rates. Due to different data densities on platters, numbers of platters, and read-head technologies, it's hard to tell whether a straightforward comparison of any two drives is valid. Instead, for IDE drives, match support for the drive's highest possible PIO and DMA modes with those of your system BIOS to maximize performance. For a SCSI drive, match the unit's highest possible SCSI modes with those of your system's SCSI controller.

Portable Drives: Upgrading a laptop's hard drive? Consider alternatives to a notebook manufacturer's proprietary options, which can be costly and require you to substitute the old drive for the new. A high-capacity removable disk drive, an external hard drive, or even a costly 1.8-inch Type III PC Card drive are sometimes better values, especially because they can be used in addition to—rather than in place of—your notebook's current drive. ▼

Modems

When 56Kbps Makes Sense: Opt for a 56Kbps modem over a 33.6Kbps unit if you're sure your local phone lines and Internet service provider (ISP) can deliver faster-than-33.6Kbps access, or if you won't pay a premium for 56Kbps capability. If you bypass 56Kbps, don't opt for a 28.8Kbps modem in favor of a 33.6Kbps model. The small savings won't make up for the performance difference.

ISP Support Is Crucial: If you're buying a 56Kbps modem, steer clear of proprietary x2 or K56flex designs in favor of the new V.90 standard—if your ISP supports it.

Upgradability Is a Must: Any 56Kbps modem you buy should probably be flash-upgradable (via a software patch) to the ITU's V.90 56Kbps standard, but make sure the modem maker will stand behind its claim of upgradability with a hardware (chip or modem swap) upgrade should one become necessary.

Internal vs. External: Opt for an internal modem for the biggest break on price. External modems cost a bit more, but are usually easier to install or swap among several systems if need be.

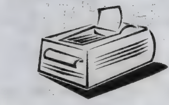
PC Card Checklist: Notebook owners shopping for a 33.6Kbps or 56Kbps PC Card modem should look for digital line protection, as well as an integrated phone-jack arrangement that eliminates the need for a modem-specific, easily misplaced RJ-11 cable. Investigate a modem/network adapter combination card if you need Internet and LAN access from a single Type II slot.

The Cellular Connection: If you plan to link your cellular phone to a PC Card modem for wireless access, check that the modem supports the MNP10-EC error-correction protocol and that an adapter cable is available for hooking up your specific model of phone to the card.

If You Have a Second Phone Line...and need more speed than 56Kbps modems can deliver, consider channel-bonding modems that pair two analog lines to achieve up to 112Kbps as an alternative to

ISDN digital service. In addition to a special modem and two phone lines, you'll need an ISP that supports channel bonding. ▼

Printers



Real Resolutions: Printer resolutions may not always be what they seem. Check the specs of a printer for both its vertical and horizontal resolutions in dots per inch (dpi), and double-check whether those figures are true measurements or equivalents reached by an enhancement technology.

Flexible Inkjets: For everyday printing of monochrome text documents, occasional full-page color printouts, and pages that mix text and color images, look for an inkjet printer with a true resolution of at least 300x600 dpi. If near-photo-realistic output is what you need—such as for printing snapshots from a digital camera—aim for even higher resolutions, such as 1,440x720 dpi or 1,200x1,200 dpi. Many inkjets support different maximum resolutions for monochrome and color printing, and on various kinds of paper.

Pricey Photo Images: The specially coated paper needed for high-end inkjets' closest-to-photo-quality printing often costs $1 or more per sheet. Factor in this expense if you need to print lots of photos at the best possible quality.

Ink Issues: Examine an inkjet's cartridge arrangement. Three-color models, which require you to swap black and three-color ink cartridges depending on your desired output, usually deliver a muddy black in color prints; four-color models, which hold both color and black cartridges, don't.

A few newer, top-quality inkjet models offer six-color printing for the sharpest color output. Printers with individual cartridges for each color maximize your ink investment.

Laser Quality: Monochrome laser printers still deliver the best results for text printing and usually cost less per page to operate than inkjets. A 300- or 600-dpi resolution (plus enhancement) is adequate for everyday correspondence. Color lasers offer the best of three worlds (laser-sharp text, crisp color, and the ability to print both on one page), but they're still quite costly.

Laser Speed: A laser intended for a single desktop should be able to print 4 or 6 pages per minute (ppm), and a shared network laser should be capable of 8 ppm or preferably more.

Network Needs: Shopping for a printer for a small workgroup? Limit personal-class inkjets or lasers to groups of two or three users. For larger groups, look for built-in LAN interfaces, high-volume monthly duty cycles, and (for lasers) 20-ppm-plus speeds. An inkjet meant for network use should be designed to stop printing—or better, alert users over the network—if an ink cartridge runs dry.

Scan the Tabloids: If you're shopping for a laser printer for a large department, consider stretching your budget for a model capable of tabloid-size (11x17-inch) as well as letter- and legal-size prints. Tabloid-size output is convenient for working with large spreadsheets or other tabular data.

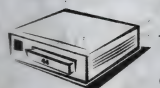
Shuffling Papers: Any workhorse network printer should have advanced paper-handling options. Look for voluminous input and output trays, as well as robust duplexing, collating, or stapling options if your group's print jobs are complex.

Two-Faced, Top-End Color: Do you frequently need to print publication-quality color proofs? A dual-mode thermal wax/dye sublimation printer can be an excellent compromise—use the less costly thermal wax mode to generate test prints, saving thermal dye mode for final output.

Host With the Most? A host-based printer—one that offloads the job of preparing print images to your PC's processor and RAM instead of its own—can save money, but consider the resulting system slowdown before you're won over by the printer's low price.

Print With Confidence: One year of warranty coverage is fairly standard, though you may encounter longer agreements; onsite service options are a plus for printers in critical applications, as well as for units that are heavy and expensive to ship for service. ▼

Removable Storage



Choosing a Strategy: With removable drives offering groundbreaking combinations of performance, capacity, and price—whether in tape media or disks—you may be able to afford a speedier, roomier drive than you think. Decide the minimum capacity per disk or cartridge you'll require, but don't ignore higher-capacity drives that are still within your budget.

Real Capacity: Make sure you know how much online storage a disk drive offers at a time. Some drives, notably those using 5.25-inch magneto-optical (MO) technology and the various writable DVD schemes, use dual-sided media that allow access to only half their capacity at a time. And judge tape drives by their native (uncompressed) capacity. You'll seldom achieve the 2-to-1 compression most tape vendors tout.

Media Watch: Don't ignore the cost of a drive's tapes or disks. In the long run, media cost can make a drive an extraordinary value—or render it a budgetary burden.

Durable Discs: Archiving data for decades? Optical media is more stable than magnetic disks or tapes, so opt for optical disc drive technology—phase-change (PD), MO, CD-Recordable (CD-R), CD-Rewritable (CD-RW), or writable DVD.

Interface: Most removable drives don't require system support for the very latest versions of SCSI or IDE. Opt for a SCSI drive if you already have a SCSI card and SCSI is an option for the type of drive you're seeking. Avoid parallel-port or floppy interfaces if performance is a priority, although external parallel-interface drives can be convenient.

Performance: Disk Drives: Drives with Winchester (hard drive) technology tend to be the best performers at any given capacity, followed by optical drives; floppy-media drives tend to be slowest. Compare disk drives' average access times—how quickly the drive head reaches the data it seeks—as well as average (not maximum or minimum) sustained throughput—how quickly you can get data to or from the disk itself. Lower is better for access time, and higher is better for throughput.

Performance: Tape Drives: Most minicartridge tape drives—except for some newer, SCSI-based Travan-4 drives—use slow floppy or parallel interfaces. Make sure a tape drive's poky performance won't deter you from using it for regular backups. SCSI-based DAT or 8mm tape drives offer better performance at higher prices.

Choices: 250MB or Less: Iomega's 100MB Zip is the popular pioneer among floppy-media removable drives, although LS-120 drives (and a couple of newer competitors) offer backward compatibility with 1.44MB floppies. You'll enjoy Winchester-class speed from drives like Avatar's Shark 250. Tape drives are no longer a cost-effective choice for capacities under 1GB.

Choices: 500MB to 1GB: Rock-bottom cost and rock-solid compatibility with CD-ROM drives make write-once CD-R media (which you can create in either a CD-R or CD-RW drive) appealing for data exchange and cheap archiving. Other optical alternatives include 650MB PD or 640MB MO drives.

Choices: 1GB and Up: You have three broad choices here. Winchester disk drives such as SyQuest's SparQ and SyJet or Iomega's Jaz are fast performers. MO drives at 2.6GB and 4.6GB are pricey, but their reliable media can be a bargain in the long run. Minicartridge tape drives, especially Travan-3 (1.6GB native capacity) and Travan-4 (4GB native capacity) models, are excellent for backing up big hard drives for fractions of a cent per megabyte; 8mm and DAT media are cheaper still, though the drives are costlier.

Warranty and Support: Before buying, check the terms of any drive's warranty and examine the seller's return policy. Determine who provides phone support—the seller or manufacturer—and whether you can reach tech support outside of normal business hours. ▼

10 Tips for Direct Success

As more people than ever buy PC products by mail, more hardware and software vendors enter the direct channel each year. Most strive to offer the best products available, along with quality service and support, to ensure that customers return again and again.

Although buying direct can yield unbeatable values, it takes a savvy consumer to find the best deals and avoid common mail-order mistakes. Fortunately, it's easy to save time, money, and aggravation by adhering to some basic tenets of the direct-channel experience.

By Tami D. Peterson

1. ALWAYS USE A CREDIT CARD. You don't forfeit your rights as a consumer if you pay by cash, but you forfeit the most practical way to enforce those rights—credit-card companies' procedures for refunding your money if there's a problem with the product or its delivery.

If a product doesn't arrive as promised or work as advertised, and the vendor won't fulfill its obligations or comply with your reasonable requests, your best recourse is to apprise your credit-card company of the situation. Under the Fair Credit Billing Act, you have 60 days from the occurrence of the problem to report the details in writing. No credit-card company guarantees it will solve every problem or issue a charge-back for every disputed purchase, but the clout of the creditor is often the heaviest weapon you can wield.

2. GET A NO-QUESTIONS-ASKED MONEY-BACK GUARANTEE. It's common for hardware vendors to offer a 30-day return-for-refund period, although even the most honorable companies may offer less than 30-day guarantees for certain product categories such as notebook PCs. This is a result of consumers taking advantage of vendors by borrowing or using products without paying for them.

Many vendors refuse to take back opened software packages. Others, especially those specializing in software, are more accommodating. Clarify whether your refund will include shipping charges, too.

3. STEER CLEAR OF RESTOCKING FEES. Restocking fees—often 15 percent to 20 percent of your total purchase price—can take a big bite out of a money-back return policy. Be sure to ask about the existence and terms of such policies before you buy, and whether fees apply to certain types of products or even certain parts of a system purchase. PC hardware, for instance, might be returnable without a restocking fee, but bundled software may be subject to a fee or nonreturnable.

4. AVOID CREDIT-CARD SURCHARGES. If an advertisement offers a discount on cash purchases, think twice. It's another way of saying that the vendor imposes a surcharge on credit-card purchases, inciting you to violate the No. 1 rule of mail-order shopping: Always use a credit card.

5. KNOW THE DETAILS OF YOUR SERVICE POLICY. All things being equal, a three-year or five-year warranty is obviously more attractive than a one-year warranty. But sometimes, a solid one-year plan—one that covers parts and labor on all components, not just some, and includes onsite service at your discretion rather than the vendor's—can be better than three years of haggling and headache.

6. CLARIFY DELIVERY TERMS. Mail-order merchants are obligated to ship products within the time period they specify. The agreed-upon time may be precise (e.g., two days) or vague (e.g., between four and six weeks), but must be finite. If the vendor can't deliver within that time, it must inform you in writing of the delay and recommit to another date. You have the right to cancel your order if the delay is unacceptable to you, but you must reply—silence on your part is deemed acquiescence.

There's no reason for a canceled order in this case to involve any refund, as a vendor cannot bill you until it ships your goods. Nevertheless, it's smart to contact your credit-card company at least once a week after ordering to verify that there's been no advance billing. If you ever encounter an early charge, contact the vendor immediately. If it cannot provide a shipping invoice or airbill number that you can track yourself, have the charge removed until you're certain the goods have been shipped.

7. ACCEPT NO SUBSTITUTES. Before you finalize an order, especially on a PC, have the vendor send or fax you a detailed list of components. Don't settle for a spec sheet that leaves component choices open—one, for example, that merely lists "graphics card" if you're expecting a particular brand and model of graphics accelerator. If you don't get things spelled out, you'll have little recourse if you don't get what you thought you had ordered.

8. PAY NO MORE THAN ADVERTISED. Don't fall for the classic bait-and-switch scheme, in which a product is advertised at an enticingly low price, but the vendor tells you that it is sold out and pitches a more expensive product in stock. If the product is available but the vendor says component-cost fluctuations have driven its price up, it's your call: Legitimate component increases are not uncommon, but many vendors are willing to shave their profits and honor their advertised prices rather than pass along their problems to the customer.

9. GET ALL SALE TERMS IN WRITING. It's nice to hear all the right answers to your questions over the phone, but memories of cordial conversations mean nothing if you're trying to prove yourself in a dispute. For every rule above, you should get the vendor's position stated in writing. For every vendor that balks at providing this information, there's another who'll be happy to send you documentation of its policies by mail, fax, or e-mail.

For your part, keep track of all your correspondence. This includes copies of your credit-card receipts and confirmation letters, along with the advertisement that may have inspired you to call a particular vendor. Each time you telephone a vendor, note the date and time, the purpose of the call, and the name of the person with whom you spoke.

10. WHEN THINGS GO WRONG, GET GOING. This advice applies when shopping as well as for post-purchase problems. If a vendor strikes you as irresponsible, unresponsive, or unprofessional during your initial inquiries, there's no reason to believe it'll do better after you buy.

If you follow all these rules and still encounter problems, your first move should be to inform your credit-card company. You can follow up by filing a complaint with the vendor's local Better Business Bureau (BBB) (*www.bbb.org*).

If you can prove fraud, contact the Postal Inspector of the city in which the vendor is headquartered. Business and civic organizations like the BBB, the Direct Marketing Association, and other consumer-protection agencies can do little more than log complaints, but the U.S. Postal Service has legal authority to pursue fraudulent mail-order marketers.

Also, if you've kept good records, you can forward copies of your correspondence with a detailed cover letter via postal mail to *Computer Shopper's* customer service representative, Monica Dixon, at 1 Park Ave., 11th Fl., New York, NY 10016. Dixon cannot accept phone or e-mail complaints or promise a resolution to your problem, but she will alert vendors and forward complaints on your behalf.

Finally, never return a product, in dispute or otherwise, without obtaining a return merchandise authorization (RMA) code from the vendor. Whenever possible, keep possession of the product until your complaint is resolved. ▼

Government Buying

Guidelines for Purchasers

by Jackson Bond

If you're an employee of a state, federal, or county government agency who needs to purchase PC equipment, you have several options. Here are some guidelines.

1. Buy It Yourself

It can be convenient to pick up a PCI card at the local CompUSA—or a lot cheaper to order via mail-order from the more than 10,000 products advertised in *Computer Shopper*. Many of these vendors cater to government business. Ordering by mail offers quality products, customer support, good values, and fast turnaround.

However, be aware that requirements vary from agency to agency. In case of an audit, you'll also have to account for every penny.

2. Establish Your Own Contracts With Major Vendors

For long-term, frequent-buyer relationships, it's often valuable to make an alliance with a single vendor. However, designing contracts and establishing relationships is time-consuming. If your job allows you the time to spend on signing unassailable computer contracts with big vendors, go for it—but if not, consider the two remaining options.

3. Use Existing GWACs

Government-wide acquisition contracts are contracts for various information technology resources owned by one federal agency but nevertheless available to other specified federal agencies. For example, if a GWAC contract for buying modems was established by the State Department, you can use it for your own purchases even if your office is under the Commerce Department's umbrella.

Generally, the maximum value of the contract is the value of the host agency's requirement plus an additional 20 percent for other agencies. For instance, if the host agency's requirement was $500 million, the maximum value of the contract would be $600 million. Additional limitations exist on how much of the total contract value a single agency can use, an amount which is determined by the host agency.

Dozens of active GWACs are available today. You can check out the Federal Computer Week site located at *www.fcw.com/ref/contacts.html* for a list of contracts.

If you can find a contract applicable to your office's needs, this is a great option. If you are not sure what you want and don't want to leaf through the numerous contracts to find one that fits your bill, there's still another option.

4. Pick a GSA Schedule

One of the General Services Administration's (GSA's) major services, the Federal Supply Service (FSS), provides federal agencies with the means to purchase more than 4 million items by automated ordering, mail, or telephone, or over the Internet. In the computer arena, the GSA has negotiated contracts with more than 600 software and hardware manufacturers and retailers that help streamline the buying process by providing ready-made contracts for various items.

No federal government buyer is required to use the GSA-approved schedules (or GWACs, for that matter). However, there are two reasons why buyers may turn to this option:

- Your purchase will have the federal government's implicit if not explicit seal of approval. This means you probably won't be challenged for the price you paid or for violating any government requirements.
- It's easy. Since these contracts are ready-to-wear, they spell less hassle for buyers. You want a tower-case PC with a Pentium II processor, 32MB of RAM, and an 8GB hard drive? You have a number of choices.

Purchasers can give the GSA a call for more information, but a better option is to visit the GSA's Web site (*www.gsa.gov*). By entering the GSA Advantage section, users can click on definitions of various computer-related categories. Eventually, by drilling down through categories and product types, you'll find available contracts for whatever you seek.

You also, incidentally, get a choice not only of system but of vendor. So for example, if you have had good experiences ordering from Dell in the past and you find that it is among those listed on the GSA Web site for your particular product, you can take advantage of that fact.

In addition, purchasers can now use government credit cards to order scheduled items online. In fact, users can select any number of purchases, toss them into an electronic shopping cart, and then pay all at once before exiting the site.

If you wish to order your equipment directly from the vendor, you can also do this once you have drilled down to the product you want: The site features the approved vendor names, phone numbers, and, if appropriate, contact people. You can also go directly to the vendor's Web site for more information. Some direct vendors do not currently allow federal purchasers to pay for goods online, but this functionality is undoubtedly on the way.

Another nice feature of the GSA site is its ability to help users meet government requirements. For example, if government regulations require a certain item to be purchased via a program such as the Javits/Wagner/O'Day program for the blind or severely disabled, the site will flag the item and help the user with compliance.

Despite all the benefits of using GSA schedules for medium or large purchases, there are some drawbacks. First, the schedule list does not provide buyers with any information about the quality of either the manufacturer or the product. Second, most computer items purchased from the GSA's site take 60 to 90 days to arrive.

If you need equipment faster than that, you may want to visit the site to find out about existing GSA contracts and then make the actual purchase by another means—for example, by contacting the vendor directly. This is one of the real advantages of a direct purchase: According to Gateway representatives, they actually have a 30-day receipt of order, which is a vast improvement over the three-month period needed otherwise.

Good luck, and be sure to spend those tax dollars wisely. ▼

HOW WE TEST

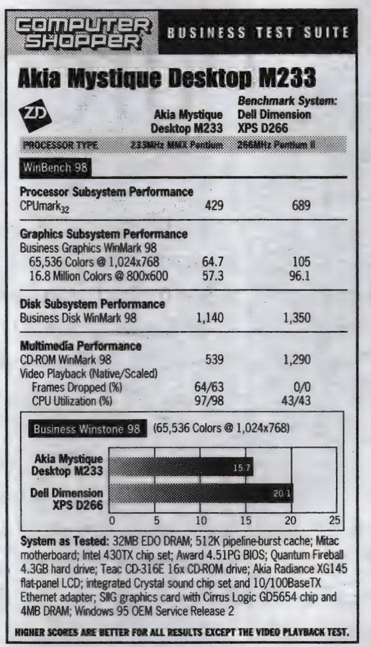
COMPUTER SHOPPER

PRODUCT TESTING

Computer Shopper's primary goal is to help readers make intelligent buying decisions in the direct channel. To help achieve that goal, we test computer systems and other hardware using both objective and subjective criteria. Our objective testing is performed using Ziff-Davis benchmark suites for servers and PC systems and subsystems, or specialized test equipment and software for peripherals such as monitors, modems, and sound cards. *Computer Shopper* also has access to ZD's full range of testing resources, including its corporate test center, ZD Labs.

The latter's facilities in Foster City, Calif., include a LAN lab equipped with 180 PCs on three Fast Ethernet networks. The center also has a monitor lab whose specialized equipment provides precise measurements of a monitor's convergence, geometric distortion, color accuracy, and brightness, and a modem lab equipped with line simulators for measuring a modem's performance under real-world conditions in a controlled environment. Its sound lab is equipped with signal analyzers and an anechoic chamber to provide precise frequency-response, distortion, and noise measurements of speakers and sound cards.

Server testing and some product roundups are performed by *Computer Shopper* project leaders at ZD Labs. Test results generated at ZD Labs are accompanied by this logo: ZD LABS



COMPUTER SHOPPER BUSINESS TEST SUITE

Akia Mystique Desktop M233

ZD

	Akia Mystique Desktop M233	*Benchmark System:* Dell Dimension XPS D266
PROCESSOR TYPE	233MHz MMX Pentium	266MHz Pentium II
WinBench 98		
Processor Subsystem Performance		
CPUmark$_{32}$	429	689
Graphics Subsystem Performance		
Business Graphics WinMark 98		
65,536 Colors @ 1,024x768	64.7	105
16.8 Million Colors @ 800x600	57.3	96.1
Disk Subsystem Performance		
Business Disk WinMark 98	1,140	1,350
Multimedia Performance		
CD-ROM WinMark 98	539	1,290
Video Playback (Native/Scaled)		
Frames Dropped (%)	64/63	0/0
CPU Utilization (%)	97/98	43/43

Business Winstone 98 (65,536 Colors @ 1,024x768)

	Business Winstone 98
Akia Mystique Desktop M233	15.7
Dell Dimension XPS D266	20.1

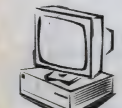
System as Tested: 32MB EDO DRAM; 512K pipeline-burst cache; Mitac motherboard; Intel 430TX chip set; Award 4.51PG BIOS; Quantum Fireball 4.3GB hard drive; Teac CD-316E 16x CD-ROM drive; Akia Radiance XG145 flat-panel LCD; integrated Crystal sound chip set and 10/100BaseTX Ethernet adapter; SIIG graphics card with Cirrus Logic GD5654 chip and 4MB DRAM; Windows 95 OEM Service Release 2

HIGHER SCORES ARE BETTER FOR ALL RESULTS EXCEPT THE VIDEO PLAYBACK TEST.

Ziff-Davis Benchmark Operation, ZD's research and development division, creates a wide range of PC and server benchmarks that are used by *Computer Shopper* personnel and reviewers to measure system- and subsystem-level performance. In this guide, we have provided an explanation of how we use the benchmarks, and how the scores are calculated. Test results generated using ZD benchmarks are accompanied by this logo: ZD

For an even more detailed discussion of our benchmarks, look online at *www.cshopper.com/contactus/howwetest.html.*

Desktop Systems



We test desktop systems using ZD's WinBench 98 and Winstone 98 business benchmark suites. Unless otherwise noted, Pentium II-class systems equipped with 64MB of RAM and Windows NT are also tested with WinBench 98's and Winstone 98's high-end benchmark tests. All Windows 95-based systems are tested with hard drive read-ahead optimization and graphics acceleration set to full. Virtual memory and disk-cache settings are managed by Windows 95, and the CD-ROM cache size is set at the recommended level for the drive type and amount of RAM installed. On Windows NT-based systems, Application Performance is set to maximum, and the Initial Paging File size is set to a value equal to one-and-a-half times the total system memory. Score differences up to plus or minus 3 percent are considered insignificant. Results from the 1998 benchmark tests should not be compared with scores published in our 1997 or earlier issues.

Business Winstone 98 and WinBench 98's CPUmark$_{32}$, Business Graphics WinMark 98, Business Disk WinMark 98, and CD-ROM WinMark 98 tests are run using the vendor's 65,536-color, 1,024x768 graphics driver setting. WinBench 98's MPEG-1 playback test and a second run of the Business Graphics WinMark 98 are performed at 800x600 pixels at a 24-bit color depth if supported; otherwise, a 32-bit color depth is used. High-End Winstone 98 and WinBench 98's High-End Disk and Graphics tests are run at a resolution of 1,024x768 pixels with a 24-bit color depth if it is supported; otherwise, those tests are run at a color depth of 32 bits per pixel.

On Windows 95-based systems of interest to home users, we run 3D WinBench 98's 3D WinMark 98 test. (See "Benchmark Specifics" for more detailed information.)

Our benchmark systems are Dell Dimension XPS D266 and XPS D300 minitowers equipped with 266MHz and 300MHz Pentium II processors, respectively, and Intel 440LX chip sets. The Dimension XPS D266 has 32MB of SDRAM, an IBM Deskstar 8.4GB EIDE hard drive, an STB Velocity 128 AGP graphics card with 4MB of SGRAM, an NEC CDR 1800A 24x CD-ROM drive, and Windows 95 OEM Service Release 2.1. The Dimension XPS D300 features 64MB of SDRAM, an Adaptec AHA-2940UW SCSI controller with a Western Digital WDE 4360 4GB SCSI hard drive, a Matrox Millennium II AGP graphics card with 8MB of WRAM, and Windows NT 4.0 with Service Pack 3.

Mobile Systems

We test mobile systems with ZD's Business Winstone 98 system-level benchmark and WinBench 98's processor, hard drive, CD-ROM drive, graphics, and video subsystem tests. All tests are run with 65,536 colors at the highest resolution supported by the notebook's LCD panel. Mobile systems with 640x480-pixel screens are attached to a CRT and tested at 800x600 pixels with 65,536 colors. We also measure the system's usable battery life using ZD's BatteryMark 2.0 test. (See "Benchmark Specifics" for more detailed information.)

Our benchmark notebook is a Gateway 2000 Solo 2300 equipped with a 233MHz MMX Pentium CPU, 32MB of RAM, 512K of pipeline-burst cache, an IBM 3.9GB EIDE hard drive, a Toshiba XM-1502B 10x CD-ROM drive, a 12.1-inch active-matrix color display, and Windows 95 Service Release 2.

File Servers

We test file servers on one of ZD Labs' 60-node test networks. The nodes are 40 200MHz Pentium Pro-based Dell Dimension XPS systems and 20 166MHz Pentium-based systems equipped with 32MB of RAM and Intel EtherExpress 10/100Mbps Fast Ethernet adapters. We set up two 100Mbps Ethernet segments by connecting the server and clients to two pairs of cascaded Bay Networks 28115 10/100Mbps switches; both the switches and clients are configured for 100Mbps operation. The server is equipped with two 100Mbps Fast Ethernet adapters.

We use NetBench 5.01's Disk Mix tests to measure the server's performance with network file operations under different loads. In this test, each Windows 95-based workstation generates application-level file requests that mir-

HOW WE TEST

ror the network file operations of real applications. These requests are transported through the physical network to the server.

We run the test with one client, then increase the load in four-client increments and retest until all 60 workstations are in use. Each NetBench node is configured to use 20MB of server hard drive space for reads and writes.

The throughput reported at each client load indicates how much data the server was able to process from the network clients. Higher numbers indicate better performance. Since multiple workstations are constantly firing requests at the server in the course of each test, results for a given number of NetBench nodes might actually represent performance typical of a larger network using less demanding workstations. ▼

BENCHMARK SPECIFICS

Business Winstone 98

Business Winstone 98 measures a PC's overall performance when running nine top-selling 32-bit Windows business applications through a series of scripted activities. The applications and categories are:

Business Database/ Spreadsheet	Microsoft Access 97 Microsoft Excel 97 Lotus 1-2-3 97 Corel Quattro Pro 7
Business Word Processing	Microsoft Word 97 Corel WordPerfect 7
Business Publishing	CorelDraw 7 Microsoft PowerPoint 97
Business Browser	Netscape Navigator 3.01

To compute the overall Business Winstone score, we first time how long a PC takes to complete each test script, then we normalize those times against the time taken by a baseline machine. Winstone 98 uses harmonic means of these normalized scores and the weights of each application and category to arrive at an aggregate score. The result is then multiplied by 10 to derive the overall score. The baseline machine (a Dell Dimension with a 133MHz Pentium CPU and 32MB of RAM running Windows NT 4.0) achieves an overall score of 10.

High-End Winstone 98

High-End Winstone 98 measures a PC's overall performance when running seven 32-bit Windows CAD, 3-D visualization, image-editing, and application development packages through a series of scripted activities. These applications are:

MicroStation 95
Adobe Photoshop 4.01
PV-Wave 6.1
Microsoft Visual C++ 5.0
Adobe Premiere 4.2
AVS/Express 3.1
Microsoft FrontPage 97

To compute the overall High-End Winstone 98 score, we first time how long a PC takes to complete each test script and normalize those times against the time taken by a baseline machine. Winstone 98 uses harmonic means of these normalized scores to arrive at an aggregate score. The result is then multiplied by 10 to derive the overall score. The baseline system (a Dell Dimension with a 133MHz Pentium CPU and 32MB of RAM running Windows NT 4.0) achieves an overall score of 10.

CPUmark$_{32}$

WinBench 98's CPUmark$_{32}$ is a synthetic test that mirrors the processor usage of 32-bit Windows applications.

Business Graphics WinMark 98 And Business Disk WinMark 98

WinBench 98's Business Graphics WinMark 98 and Business Disk WinMark 98 measure graphics and disk subsystem performance by replaying all the graphics and disk operations the Business Winstone 98 applications perform while executing the Business Winstone 98 scripts.

High-End Graphics WinMark 98 And High-End Disk WinMark 98

WinBench 98's High-End Graphics WinMark 98 and High-End Disk WinMark 98 measure graphics and disk subsystem performance by replaying the graphics and disk operations the High-End Winstone 98 applications perform while executing the High-End Winstone 98 scripts.

CD-ROM WinMark 98

WinBench 98's CD-ROM WinMark 98 uses a mix of CD-ROM operations based on profiles of six popular CD-ROM applications.

MPEG-1 Video Playback Test

WinBench 98's MPEG-1 video playback test measures the system's ability to play a 352x240-pixel MPEG-1 movie clip from the CD-ROM drive both at its native image size and scaled up to full-screen size. We also measure the percentage of CPU resources needed to play the clip.

BatteryMark 2.0

BatteryMark 2.0 measures a notebook's usable battery life with power management enabled, using a series of 32-bit processor, hard drive, and graphics workloads mixed with think periods (idle times) of varying duration. Each notebook is run through a battery-conditioning phase, then configured to the following settings: The CPU speed is set to fast or auto; the display time-out is set for a minimum of 30 seconds; the hard drive time-out is set to 2 minutes or the next-highest setting; and the sleep-suspend timer is set at a time limit equal to or greater than the hard drive timer's limit.

3D WinBench 98

3D WinBench 98 measures 3-D graphics performance by using the Windows Direct3D 5.0 API to render 3-D scenes similar to those found in games. By querying Direct3D, 3D WinBench 98 attempts to determine—in the same way as games do—which rendering features are supported by the accelerator and its driver. From this query, 3D WinBench 98 obtains information about which 3-D features the accelerator provides in hardware via the Hardware Abstraction Layer (HAL), and which require the software-based Hardware Emulation Layer (HEL).

During the benchmark's development and testing, ZDBOp's developers and *Computer Shopper*'s reviewers have found many Direct3D drivers that indicate a particular 3-D rendering feature is supported by the accelerator, but in reality the feature does not render correctly or fails to render at all. For example, we've seen some drivers and accelerators that were supposedly capable of specular highlighting, but tests revealed they were not.

To help our reviewers accurately determine a 3-D accelerator's rendering options, 3D WinBench 98 provides a 3-D quality-verification suite. This suite consists of about 40 tests that show how a scene should appear if an accelerator implements the associated features correctly. Reviewers can then compare that image with the one the test accelerator actually provides and inform 3D WinBench if a specific feature is rendered adequately. If not, the benchmark will use the slower HEL on all test scenes that include that feature.

The main 3D WinBench 98 score, the 3D WinMark 98, is a measure of overall 3-D performance and how well an accelerator displays 3-D images.

The benchmark program produces this score by displaying a series of 19 scenes. Because most Windows-based 3-D games on the market or under development use Direct3D's Immediate Mode API, 3D WinBench 98 also uses that interface to render its test scenes. The 19 scenes do not compose a typical benchmark workload as you would find in WinBench 98 or Winstone 98. Instead, they represent a spectrum of 3-D rendering features and complexity levels.

The test scenes stress a variety of features in a 3-D accelerator. They vary both in complexity (the number of triangles they draw in the course of displaying their images) and in the number of rendering, or quality-enhancing, options they employ. The complexity of the scenes in the 3D WinMark 98 test ranges from more than 2,000 triangles per frame to more than 6,000 per frame. This range represents the complexity levels both of today's games and those that will debut in the coming months.

In some scenes, the benchmark uses only the minimal set of quality options most games consider necessary for decent appearance: point-sampling, perspective correction, and Z-buffering. In other scenes, it applies more powerful—and more demanding—quality options, such as bilinear filtering, fog, specular highlighting, and MIP-mapping.

As 3D WinBench 98 displays each of these scenes, it determines the number of frames per second the system was able to render. It then sums the 19 individual frame rates. This approach gives each accelerator credit for every rendering feature it accelerates and rewards accelerators that perform well on the features they implement.

When comparing 3D WinMark 98 scores, it is important to note that while higher scores are better than lower scores, the scores don't have a simple linear relationship. You can't, for example, conclude that an adapter that receives a score of 100 is twice as fast as one that scores 50 because the scores include credit for both the sets of rendering options the accelerators implement and their frame-rate performance. The accelerator with a 3D WinMark 98 score of 100 might have fared well because it supported hardware-accelerated trilinear MIP-mapping and did not have to rely on software emulation to display any of the scenes. The one with a score of 50 might have done almost as well on the scenes it could render in hardware, but had to rely on software for some of the other scenes. In this example, the adapter scoring 100 is a significantly better performer than the other one, but the gap is due to more than just performance differences.

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Act Soft 8-15 Ilene Ct Belle Mead, NJ 08502	M-F 8am-12am EST	800-560-6234 888-228-7638 F908-359-0833	M-F 10-6 EST 908-359-4219	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	25 day replace defective item	N	15%	N
Adamant Computers 4572 Renaissance Pkwy Cleveland, OH 44128	M-F 9-8 Sat 10-3 EST	800-284-2257 216-595-1211 F216-595-1430	M-F 9-8 EST 216-595-9985	Y	Y	N	Y	VI,PO,MO,MC CD,AE	Y	3 yr	30	15%	Y
Adtech 522 Boston Post Rd Wayland, MA 01778	M-F 8-6 EST	800-419-0023 508-358-0077 F508-358-0066	24 hrs EST 800-419-0023	Y	Y	N	Y	VI,PO,MO,MC CK,CD,AE	Y	Manuf	7	N	N
Advanced Innovative Marketing 320 S Milpitas Milpitas, CA 95035	M-F 9-5 PST	408-945-9000 408-945-3118 F408-945-1499	M-F 8:30-4:30 PST 408-945-3100	Y	Y	N	N	VI,PO,MO,MC CD	N	Varies/3 yr	N	25%	Y
AeroComm 13228 W 92nd St Lenexa, KS 66215	M-F 8-5 CST	800-492-2320 F913-492-1243	M-F 8-5 CST 800-492-2320	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	1 yr	30	15%	N
All Computer Technology (ACT) 224 S 5th Ave City of Industry, CA 91746	M-F 8:30-5 PST	800-775-1953 626-369-4181 F626-961-7462	M-F 9-4:30 PST 626-369-4181	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	N	1 yr	30	15%	Y
American Micro 5351 Naiman Pkwy Solon, OH 44139	M-F 9-9 Sat 10-5 EST	800-619-0508 F216-349-6170	M-F 10-6 EST 888-486-4276	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1-3 yr	30	15%	N
American Micro Professionals 10 Ridgedale Ave Unit 4 Florham Park, NJ 08820	Daily 8-12pm EST	800-857-3223 F201-377-9261	M-F 9-5 EST 800-396-2532	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/1 yr-life	30	15%	N
American Microsystems 2190 Regal Pkwy Euless, TX 76040	M-F 8:30-5:30 CST	800-648-4452 F817-685-6232	M-F 8:30-5:30 CST 800-648-4452	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	1 yr	30	N	N
American Power Conversion Corp 132 Fairgrounds Rd West Kingston, RI 02892	M-F 8:30-5:30 EST	800-800-4272 800-890-4272 F401-789-3180	M-Th 8:30-8 F 8:30-7 EST 800-800-4272	Y	N	N	N	VI,PO,MC,CD	Y	2 yr	N	N	Y

SOURCE DIRECTORY

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
American Ribbon & Toner Co 2895 W Prospect Rd Ft Lauderdale, FL 33309	M-F 8-6 Sat 10-3 EST	800-327-1013 305-733-4552 F305-733-0319	M-F 8-4 EST 800-327-1013	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr	30	20%	N
Americomp 5380 E Naiman Pkwy Solon, OH 44139	M-F 9-7 Sat 10-3 EST	800-217-2667 216-498-9620 F216-498-9630	M-F 9-7 EST 216-498-9620	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	3 yr	30	15%	N
Amp Tech 5351 Naiman Pkwy Solon, OH 44139	M-F 9-9 EST	800-619-0508 F216-349-6170	M-F 9-6 EST 216-349-6170	Y	Y	N	N	VI,MO,MC,DI CD	Y	3-5 yr	30	15%	N
AMS 12881 Ramona Blvd Irwindale, CA 91706	M-F 6-6 Sat 9-3 PST	800-868-8148 626-814-8851 F626-814-0782	Same 800-886-3536	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	3 yr	30	N	N
Annex Distributors P.O. Box 24 Tire Hill, PA 15959	M-F 9-6 EST	888-882-6639 F888-274-4737	Varies 888-862-2832	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD	Y	6 mo-5yr	Varies	20%	N
APPRO International 2032 Bering Dr San Jose, CA 95131	M-F 8-6 PST	800-927-5464 408-452-9200 F408-452-9210	M-F 8:30-6 PST 408-452-9200	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	1 yr	30	15%	N
Ares Global Resources Enterprise 1756 E Colorado Blvd Pasadena, CA 91106	M-Sat 8:30-5:30 PST	800-515-5828 F626-568-9132	M-Fri 8:30-5:30 Sat PST 800-515-5828	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/3yr	30	15%	N
ARM Computer 1637 South Main St Milpitas, CA 95035	M-F 7-6:30 Sat-Sun 8-4 PST	800-765-1767 408-935-9800 F408-935-9192	M-F 8-6:30 Sat 8-4 PST 800-765-1767	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	3 yr	30	N	N
Ashtek 2600-B Walnut Ave Tustin, CA 92680	M-F 8-5 PST	800-801-9400 714-505-3157 F714-505-2693	M-F 11-3 PST 714-505-3157	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	5	20%	N
ATI Technologies 33 Commerce Valley Dr E Thornhill, ON L3T 7N6	M-F 8:30-5:30 EST	905-882-2600 F905-882-2620	M-F 9-7 EST 905-882-2626	Y	Y	Y	N	NA	Y	5 yr	N	N	N
Aventec Direct 5978 Heisley Rd Mentor, OH 44060	M-F 10-8 Sat 10-5 EST	800-898-9494 F440-918-7263	M-F 10-6 EST 440-918-7265	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/varies	30	0-15%	N
Barnett Computers 417 Fifth Ave New York, NY 10016	Daily 9-8 EST	800-931-7070 212-696-4777 F212-696-5820	Same 212-696-4777	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	10	N	N
Bason Computers 20130 Plummer St Chatsworth, CA 91311	M-Sat 9-6 PST	800-238-4453 818-727-9054 F818-727-9064	Same 818-727-9054	Y	Y	Y	N	VI,MC,DI,CK CD,AE	Y	5 yr	30	25%	N
Bear Rock Technology 4140 Mother Lode Dr, Ste 100 Shingle Springs, CA 95682	M-F 8-12 & 1-5 PST	800-232-7625 916-672-0244 F916-672-1103	M-F 9-12 & 1-4 PST 916-672-0450	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Varies	Varies	N	N
Big City Express 96 Hobart St Hackensack, NJ 07601	M-F 8-8 Sat 12-4 EST	888-223-2489 201-457-9044 F201-457-9576	*	Y	Y	N	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf	30	10%	N
Blue Line Communications Warehouse 808 W Vermont Ave Anaheim, CA 92805	M-F 7-5 Sat 10am-2pm PST	800-258-7810 714-999-2441 F714-999-2442	M-F 7-5 PST 714-999-2441	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	Varies	30	10%	Y
BOLData Systems 48363 Fremont Blvd Fremont, CA 94538	M-F 8:30 - 5:30 PST	800-923-2653 510-490-8296 F510-490-7981	M-F 8:30 - 5:30 PST 800-923-2653	Y	Y	Y	Y	VI,PO,MO,MC CK,CD	Y	Varies	30	N	N
Boxlight Corp 17771 Fjord Dr NE Poulsbo, WA 98370	M-F 7-5 PST	800-762-5757 F360-779-6470	M-F 6:30-4:30 PST 800-762-5757	Y	Y	Y	Y	VI,MC,AE	Y	1-3 yr	30	Varies	N
BSI 9440 Telstar Ave, Ste 4 El Monte, CA 91731	M-F 7-6 PST	800-872-4547 626-442-0020 F626-442-4527	M-F 8:30-5:30 PST 626-442-7038	Y	N	Y	Y	PO,MO,CK,CD	Y	1 yr parts/labor	15	10%	N
Business Technology 4100 N Powerline Rd Ste P-6 Pompano Beach, FL 33073	M-F 8:30-8 Sat 10-6 EST	800-677-1822 954-974-9494 F954-974-6338	M-F 10-5 EST 954-974-9494	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	7	Varies	N
Cable & Connector Technologies P.O. Box 621 Dayton, OH 45405	M-F 8:30-5:30 EST	800-452-8770 937-277-4304 F937-277-4369	*	Y	Y	Y	N	VI,MC,CD	Y	Varies	1 yr	15%	N
Cables America 824 Leo St Dayton, OH 45404	M-F 8:30-6 EST	800-348-8724 F800-329-8725	M-F 8:30-6 EST	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	Varies	30	15%	N
Cables Plus 6090 H McDonough Dr Norcross, GA 30093	M-F 9-5:30 EST	888-794-9600 770-797-9600 F770-797-9601	M-F 9-5:30 EST 770-797-9600	Y	Y	N	N	VI,MC	Y	Varies/1yr - life	30	15%	N

SOURCE DIRECTORY

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
Cables To Go 1501 Webster St Dayton, OH 45404	M-F 8:30-6 EST	800-225-8646 513-224-8646 F800-331-2841	M-F 8:30-6 EST 800-225-8646	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Varies	30	15%	N
Cadd Engineering Supply 8601 73rd Ave N, Ste 11 Brooklyn Park, MN 55428	M-F 7:30-5:30 CST	800-704-3337 F612-536-0301	M-F 8-5 CST 612-536-0624	Y	Y	Y	Y	VI,PO,MO,MC CK	Y	Varies	15	15%	N
Case Depot 14102 E Firestone Blvd Sante Fe Springs, CA 90670	M-F 8:30-5 Sat 9-2 PST	800-200-6118 F310-404-8525	M-F 8:30-5 PST 310-404-9725	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	1 yr	30	15%	N
Circo Technology Corp 148 8th Ave, #D City of Industry, CA 91746	M-F 9-6 PST	800-678-1688 626-369-5779 F626-369-2769	M-F 9-6 PST 800-678-1688	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	1 yr	30	15%	N
CMO 101 Reighard Ave Williamsport, PA 17701	24 hrs	800-233-8950 717-327-9200 F717-327-1217	M-F 8-5:30 EST 800-221-4283	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Comp-U-Plus 20 Robert Pitt Dr Monsey, NY 10952	M-Th 8:30-9 F 8:30-5:30 Sun 10-6 EST	800-287-2323 800-287-8786 F914-352-0076	M-F 10-6 EST 914-352-8100	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	2-5 yr	30	N	N
Compaq Works 10251 N Freeway Houston, TX 77037	M-F 8-7 Sat 10-5 CST	800-318-6919 F713-927-6798	24 hrs 800-652-6672	N	N	N	N	VI,MO,MC,DI CK,AE	Y	Varies/90 day	7	Varies	N
Complete Systems-N-More 1106 Commerce Dr Richardson, TX 75081	Sun-Th 9-6 F 9-5 CST	800-705-9596 214-705-9595 F214-705-9594	*	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	1 yr	30	15%	N
Compu America 2517 Ave U Brooklyn, NY 11229	M-F 9-7 EST	800-974-2392 718-891-4856 F718-891-2051	M-F 6-9 EST 718-633-4094	Y	Y	N	Y	VI,PO,MO,MC DI,DC,CK,CD	Y	30 day	30	15%	N
Compu-D International 6741 Van Nuys Blvd Van Nuys, CA 91405	M-F 8-5:30 PST	800-929-9333 818-787-3282 F818-787-5555	M-F 9:30-3:30 PST 818-787-1956	Y	Y	N	Y	VI,PO,MO,MC CK,CD,AE	Y	Varies	N	15%	N
CompuMall 6741 Van Nuys Blvd Van Nuys, CA 91405	M-F 7:30-6 Sat 10-4 CST	800-977-5665 818-787-1054 F818-787-2111	M-F 9:30-3:00 PST 818-977-5665	Y	Y	N	Y	VI,PO,MO,MC CK,CD,AE	Y	Manuf/3 mo - 3 yr	N	15%	N
CompuMax 740 Beta Dr Unit G Mayfield Village, OH 44143	M-F 9-7 Sat 10-5 EST	800-345-8880 F216-460-1066	M-F 10-5 EST 800-421-4640	Y	Y	Y	Y	VI,MO,MC,DI CK,CD	Y	1 yr parts/3 yr systems	30	15%	N
CompUSA Direct 34 St Martin Dr Marlborough, MT 01752	M-F 7am-12am Sat, Sun 8am-12am EST	888-850-5453 508-480-8500 F800-669-8329	24 hrs 900-896-9393	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
ComputAbility P.O. Box 17882 Milwaukee, WI 53217	M-F 8-8 Sat 9-5 CST	800-558-0003 414-357-8181 F414-357-7814	M-F 9-5 CST 414-357-8181	Y	N	N	Y	VI,PO,MO,MC DI,CK,AE	Y	Varies	N	5%	N
Computer Discount Warehouse 200 N Milwaukee Ave Vernon Hills, IL 60061	M-F 7-9 Sat 9-5 CST	800-726-4239 847-465-6000 F847-465-6800	M-F 7-9 Sat 9-5 CST 800-383-4239	Y	Y	Y	Y	VI,PO,MO,MC DI,AE	Y	Manuf	30	Varies	N
Computer Friends 14250 NW Science Park Dr Portland, OR 97229	Daily 6:30-5:30 PST	800-547-3303 F503-643-5379	Daily 8:30-5 PST 503-626-2291	Y	Y	N	N	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Varies	30	N	N
Computer Gate Int'l 2960 Gordon Ave Santa Clara, CA 95051	M-F 6-6 Sat 8am-2pm PST	408-730-0673 F408-730-0735	M-F 9-5 PST	Y	N	N	N	VI,PO,MO,MC CK,CD	Y	Varies	30	15%	N
Computer Warehouse 417 5th Ave New York, NY 10016	Daily 9-8 EST	888-477-6411 212-252-0099 F212-696-5820	Same 212-696-4777	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	10	N	N
CompuWorld 5064 Corbin Dr Cleveland, OH 44128	M-F 9-9 Sat 9-6 EST	800-666-6294 F216-332-0329	M-F 10-6 Sat 11-3 EST 800-998-3249	Y	Y	N	Y	VI,PO,MO,MC DI,CK,AE	Y	3yr parts/6yr labor/1yr onsite	30	15%	Y
Comtrade 15314 E Valley Blvd City of Industry, CA 91746	M-F 7-7 Sat 9-6 PST	800-969-2123 626-969-6688 F626-369-1479	M-F 9-6 PST 800-899-4508	Y	Y	Y	Y	VI,PO,MC,CK CD	Y	1 yr	30	N	N
Comtrend 39186 State St Fremont, CA 94538	M-F 7-6PM Sat 8-4 PST	888-266-8763 510-744-0950 F510-744-0952	M-F 8-5 PST 510-471-9452	Y	Y	N	N	VI,PO,MO,MC	Y	Manuf	30	15%	N

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Corporate Raider 1449 39 St Brooklyn, NY 11218	M-Th 9-8 F 9-5 Sun 10-6 EST	800-453-3555 718-633-9100 F718-633-7841	M-Th 10-5 F 10-3 EST 800-453-3555	Y	Y	N	Y	VI,PO,MO,MC DI,DC,CD,AE	Y	Manuf	30	20%	N
Cougar Mountain Software 7180 Potomac Dr, Ste D Boise, ID 83704	M-F 6-6 MST	800-388-3038 F208-375-4460	Same 800-727-0656	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Varies/60 day	60	15%	N
CPU 2355 N Steves Blvd, Ste C Flagstaff, AZ 86004	M-F 7-5 MST	800-278-3480 602-396-3616 F602-396-0483	Same 602-396-3616	Y	Y	Y	N	VI,PO,MO,MC CK,CD	Y	1 yr	30	15%	N
Crucial Technology (div of Micron) 8000 S Federal Way Boise, ID 83707	M-F 7-8 Sat 10-2 MST	800-336-8924 F208-368-3342	M-F 7-8 Sat 10-2 MST 800-336-8916	Y	Y	Y	N	VI,PO,MO,MC DI,CK,AE	Y	Life-original purchaser only	30	N	N
CTG 1501 Webster St Dayton, OH 45404	M-F 8:30-6 EST	800-225-8646 513-224-8646 F800-331-2841	M-F 8:30-6 EST 800-225-8646	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Varies	30	15%	N
Cyber Space Computers 250 Alpha Park Highland Hgts, OH 44143	M-F 9-7 EST	800-772-2305 800-898-2727 F216-442-9510	M-F 10-5 EST 216-442-9555	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Varies	30	15%	N
Cyberex 18333 E Gale Ave City of Industry, CA 91748	M-F 8:30-5:30 PST	626-913-8883 F626-913-8487	Same 626-913-8883	Y	N	N	N	VI,MO,MC,DI CK,CD,AE	Y	3yr labor/1yr parts	30	20%	Y
CyberMax 133 N 5 St Allentown, PA 18102	M-Th 9-9 F 9-6 Sat 9-4 EST	800-443-9868 F800-599-7576	M-Th 9-9 F 9-6 Sat 9-5 EST 800-443-9868	Y	Y	N	N	VI,PO,MO,MC DI,CD,AE	Y	Varies	30	N	N
Dalco Electronics 275 S Pioneer Blvd Springboro, OH 45066	M-F 8-6:30 Sat 10-4 EST	800-445-5342 513-743-8042 F513-743-9251	Same 800-543-2526	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Data Comm Warehouse 1720 Oak St P.O. Box 847 Lakewood, NJ 08701	24hrs	800-333-9899 F908-905-5731	Same 800-436-0620	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	N	N	N
Data Vision 30 Indian Dr Ivyland, PA 18974	M-F 8-8 EST	800-486-0620 800-486-9585 F215-396-0325	M-F 7:30-7:30 EST 800-486-0620	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	N	N
Datavision ComputerVideo 40 Exchange Place, Ste 1515 New York, NY 10005	Daily 8:30-11 EST	800-771-7466 212-825-1823 F212-825-1970	Daily 9-7 EST	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Manuf	10	5%	N
Dee One Systems 1550 Centre Pointe Dr Milpitas, CA 95035	M-F 8-6 Sat 10-4 PST	800-831-8808 408-262-8938 F408-262-2826	M-F 9-5 Sat 10-4 PST 800-831-8885	Y	N	N	N	VI,PO,MO,MC CK,CD	Y	6 mo	30	15%	N
Dell Computer Corp 9505 Arboretum Blvd Austin, TX 78759	M-F 7-9 Sat 8-4 Sun 10-3 CST	800-426-5150 F800-727-8320	24 hrs 800-624-9896	Y	Y	Y	Y	VI,PO,MC,DI CK,AE	Y	1 yr	30	N	N
Dell Factory Outlet 8801 Research Blvd Austin, TX 78758	M-F 8-7 CST	800-336-2891 800-283-8991 F512-728-5659	24 hrs 800-624-9896	Y	Y	N	Y	VI,MO,MC,DI CK,AE	N	Varies	7	N	N
Direct P.O.S. 7978 Fairview Boise, ID 83704	M-F 8-5 MST	888-376-8144 F208-376-8143	M-F 8am-4:30pm MST 208-376-8141	Y	Y	N	Y	VI,MO,MC,DI CD,AE	Y	90 day	Varies	Varies	N
Dirt Cheap Drives 3716 Timber Dr Dickinson, TX 77539	M-F 8-8 Sat 9-3 CST	800-473-0960 281-534-6292 F281-534-6452	M-F 8-5 CST 281-534-6292	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
Diskette Connection P.O. Box 1674 Bethany, OK 73008	M-F 7-7 CST	800-654-4058 405-789-0888 F405-495-4598	M-F 8-5 CST 405-789-0888	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	Manuf	N	15%	N
Diskettes Unlimited 6206 Long Dr Houston, TX 77087	M-F 9-5 CST	800-364-3475 713-643-9939 F713-643-2722	M-F 9-5 CST 713-643-9939	Y	N	N	N	VI,MO,MC,CK CD	Y	Replace	30	N	N
E.P.S. Technologies 10069 Dakota Ave, P.O. Box 278 Jefferson, SD 57038	M-F 7-7 Sat 9-3 CST	800-447-0921 605-966-5586 F605-966-5482	M-F 7-7 Sat 9-3 CST 800-526-4258	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	3 yr	60	N	N
EDO Micro Technology 15929 E Valley Blvd City of Industry, CA 91745	M-Sat 7-6 PST	888-336-9960 F626-336-3314	M-Sat 7-6 PST 888-336-9966	Y	N	N	N	VI,MO,MC,CD AE	Y	Manuf/ 3yr parts, 1yr labor	30	20%	N

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Eiffel Technology 302 N El Camino Real Ste 200 San Clemente, CA 92672	M-F 7-7 Sat 9-5 PST	800-817-2915 714-361-7603 F714-492-2813	M-F 7-5 PST 714-361-7603	Y	Y	Y	Y	PO,MO,MC,DI AE	Y	1yr/Replace	30	15%	Y
Electrified Discounters 110 Webb St Hamden, CT 06517	M-Th 9-7 F-Sat 9-6 EST	800-678-8585 F203-777-7853	M-F 9-5 EST 203-787-4246	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Varies	30	N	N
Enorex Microsystems 518-7 Old Post Rd, Ste 301 Edison, NJ 08817	M-F 9-9 Sat 9-6 EST	800-419-4944 908-764-5640 F908-764-5641	M-F 9-9 EST 800-419-4943	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	3yr parts/1yr labor	30	N	N
Enpower 18537 E Gale Ave, Ste B Industry, CA 91748	M-F 7-7 Sat 10-3 PST	800-997-2258 818-965-3535 F818-810-5619	M-F 7-7 Sat 10-3 PST 800-997-2258	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/1-4 yr	30	N	N
Envisions Solutions Technology 3485 Kifer Rd Santa Clara, CA 95051	Daily 7-7 PST	800-365-7226 408-735-0200 F408-735-0222	M-F 6:30-5 PST 800-469-8629	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf/1 yr	30	N	N
Ever Han Corp 5122 Walnut Grove Ave San Gabriel, CA 91776	M-F 8-5:30 PST	800-253-2531 818-309-1103 F818-309-1107	M-F 9-5 PST 818-309-1108	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1 yr	30	15%	N
Focus Computer Center 1303 46 St Brooklyn, NY 11219	M-Th 9:30-7 F 9:30-2:30 Sun 10-3 EST	800-223-3411 718-871-7600 F718-438-4263	Same 718-871-7600	N	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	N	15%	N
ForeFront Direct 25400 US Hwy 19 N, Ste 285 Clearwater, FL 34623	M-F 9-6 EST	800-475-5831 813-724-8994 F813-726-6992	M-F 9-6 EST 813-725-2755	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/30 day	Varies	15%	Y
Gateway 2000 610 Gateway Dr North Sioux City, SD 57049	M-F 7-10 Sat 9-4 CST	800-846-2000 605-232-2000 F605-232-2023	24 hrs 800-846-2000	Y	Y	Y	Y	VI,PO,MO,MC DI,CD,AE	Y	3 yr	30	15%	N
Global Data Center 17831A Sky Park Circle Irvine, CA 92614	M-F 7:30-6:30 PST	800-200-1718 714-263-0797 F714-263-0798	M-F 7:30-6:30 PST 800-200-1718	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	30 days-2yr	N	20%	Y
Global Peripheral Resources 17890 Castleton St, #318 City of Industry, CA 91748	M-Sat 9-7 Sun 10-5 PST	888-264-4460 626-810-1145 F626-965-5810	M-Sat 9-7 Sun 10-5 PST 626-912-0714	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	1 yr-life/Varies	30	12%	N
H&J Electronics International 2700 W Cypress Creek Rd Fort Lauderdale, FL 33309	M-F 8-7 Sat 9-12 EST	800-275-2447 954-971-7750 F954-979-9028	M-F 10-5 EST 954-971-7750	Y	Y	N	N	VI,PO,MC,DI AE	Y	Manuf/ 1yr	N	20%	N
Hard Drives International 1912 W 4 St Tempe, AZ 85281	24 hrs	800-927-7848 602-902-1176 F602-350-1150	M-F 24 hrs Sat & Sun 7-6 MST	Y	Y	Y	Y	VI,PO,MC,DI CK,AE	Y	1 yr	30	N	N
Harmony Computers 1801 Flatbush Ave Brooklyn, NY 11210	M-Th 9-6 F 9-2 Sun 10:30-4:30 EST	800-441-1144 718-692-3232 F718-692-4535	M-Th 9-6 F 9-2 EST 718-692-2828	Y	Y	N	N	VI,PO,MC,DI CK,CD,AE	Y	Varies	Varies	N	N
Hyperdata Technology 809 S Lemon Ave Walnut, CA 91789	M-F 7-6 PST	800-786-3343 909-468-2955 F909-468-2961	M-F 8:30-5:30 PST 909-468-2956	Y	Y	N	N	VI,PO,MO,MC CD	Y	Manuf	30	15%	Y
Iiyama Direct 575 Anton Blvd., Suite 590 Costa Mesa, CA 92626	M-F 8-5 PST	800-313-4335 800-594-7480 F714-437-5982	M-F 8-8 PST 800-313-4334	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	3 yr parts & labor	30	N	N
Image IQ 901 Lakeshore Dr Ste #104 Lake Charles, LA 70601	M-F 8-6 Sat 10-2 CST	800-933-7479 318-439-6500 F318-439-9596	*	Y	N	Y	N	VI,MO,MC,CK AE	Y	3yr parts/1yr labor	30	15%	N
Indus Group 8 Hammond Dr, Ste 110 Irvine, CA 92718	Daily 8-12am EST	800-644-6387 714-597-0430 F714-597-0433	M-F 8-3 EST 800-644-6387	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	90 day	N	20%	N
Insight Direct 6820 S Harl Ave Tempe, AZ 85283	24 hrs	800-467-4448 F602-333-3330	M-F 6am-5pm PST 602-902-1188	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/varies	15-30	0-15%	N
Interpro Microsystems 46750 Fremont Blvd, Ste 104 Fremont, CA 94538	M-F 7-6 Sat 9-3 PST	800-226-7216 510-226-7226 F510-226-7219	M-F 9-5 PST 510-226-7226	Y	Y	N	N	VI,PO,MO,MC CD	Y	1 yr	30	15%	N
Jem Computers 35 Spinelli Place Cambridge, MA 02138	M-F 9-5:30 EST	800-536-2037 617-497-2500 F617-491-1006	M-F 9-5:30 EST 617-497-2500	N	N	N	N	VI,MC,CK,CD	Y	Varies	30	N	N

SOURCE DIRECTORY

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
Jinco Computers 5122 Walnut Grove Ave San Gabriel, CA 91776	M-F 8-5:30 PST	800-253-2531 818-309-1103 F818-309-1107	M-F 9-5 PST 818-309-1108	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1 yr	30	15%	N
Kahlon 22699 Old Canal Rd Yorba Linda, CA 92687	M-F 8-5 PST	714-637-5060 F714-637-5597	M-F 8-5 PST 714-637-5060	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	Varies	N	20%	Y
Keydata International 111 Corporate Blvd S Plainfield, NJ 07080	M-F 9-6 EST	800-486-4800 888-586-5800 F908-756-7300	Same 800-486-9100	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD	Y	1 yr parts/labor	30	N	N
Keystone Learning Systems Corp 2181 Larsen Pkwy Provo, UT 84606	M-F 7-6 MST	800-748-4838 801-375-8680 F801-373-6872	NA	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	30 day	30	Varies	N
King Computer 701 Beta Dr, Unit #19 Mayfield Village, OH 44143	M-F 9-7 Sat 10-5 EST	888-240-5464 888-404-5464 F216-442-8891	M-F 9-7 EST 888-404-5464	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	5 yr	30	N	N
L.A. Computer Center 12002 Pico Blvd Los Angeles, CA 90064	M-Sat 8-6 PST	800-689-3933 310-479-0999 F310-312-9041	M-F 9:30-5:30 PST 310-473-2535	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	90 day-3 yr	N	20%	Y
L.A. Trade 22825 Lockness Ave Torrance, CA 90501	M-F 8-5 Sat 10-12 PST	800-433-3726 310-539-0019 F310-539-5844	M-F 9-4 PST 310-539-0019	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Lifetime/replace	30	20%	N
Legend Micro 3200 South Arlington Akron, OH 44312	M-F 8-10 Sat 10-5 Sun 12-5 EST	800-366-6333 330-644-7955 F330-645-7214	M-F 9-9 Sat 10-5 Sun 12-5 EST 800-366-6333	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	3yr parts/ lifetime labor	30	N	N
LJ Systems Corp 26203 Productions Ave, #7 Hayward, CA 94545	Daily 6:30-5:30 PST	888-455-7978 510-785-4355 F510-785-4462	Same 888-455-7978	Y	Y	N	N	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf/3 yr	30	N	N
Mag Innovision 2801 South Yale St Santa Ana, CA 92704	M-F 8-5 PST	800-827-3998 714-751-2008 F714-751-5522	M-F 8-5 PST 800-827-3998	Y	Y	Y	N	PO,CK,CD	Y	3 yr	Varies	Varies	N
Magic PC 5400 Brookpark Rd Cleveland, OH 44129	M-F 9-9 Sat 10-5 EST	800-762-4426 216-661-7218 F216-661-2454	M-F 10-6 EST 800-809-6483	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Marine Park Computers 3126 Ave U Brooklyn, NY 11229	M-Th 9:30-8 Fri 9:30-5 Sun 10-7 EST	800-262-0163 F718-891-8408	M-F 10-6 EST 718-769-1186	Y	N	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	10	5%	N
Matrox Graphics 1055 Saint Regis Blvd Dorval, QB H9P 2T4	M-F 8:30-5:30 EST	800-361-1408 514-685-2630 F514-685-2853	M-F 8:30-6:30 EST	Y	Y	N	N	VI,PO,MC,DI CD,AE	Y	2 yr	10	15%	Y
Maxim Technology 3930 W 29 S, Ste 35 Wichita, KS 67217	M-F 8-6 CST	800-755-1008 316-941-9799 F316-941-9883	M-F 8-5 CST 316-941-9799	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	Varies	15	15%	N
Maximus 710 E Cypress Ave, Unit A Monrovia, CA 91016	M-F 7-7 Sat 8-5 PST	800-888-6294 800-962-2888 F626-969-2775	M-F 9-6 Sat 9-5 PST 800-899-0142	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr	30	N	N
Media On 47257 Fremont Blvd Fremont, CA 94538	M-F 8-6 Sat 10-4 PST	800-552-7835 F510-490-5261	M-F 8-6 Sat 10-4 PST 800-552-7835	Y	Y	N	Y	VI,PO,MO,MC CK,CD	Y	2 yr parts & labor	30	15%	N
Media Source 2197 Canton Rd, Ste 210 Marietta, GA 30066	M-F 8:30-7 EST	800-241-8857 770-919-0059 F770-919-9228	M-F 8-7 EST 800-241-8857	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
Mediastore 2238 N Glassell St, Unit A Orange, CA 92865	M-F 7-6 PST	800-555-5551 714-974-5551 F714-279-1690	M-F 8-5 PST 714-974-5551	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	Varies	N
Mega Haus 2201 Pine Dr Dickinson, TX 77539	M-F 8-8 Sat 9-3 CST	800-786-1185 281-534-2630 F281-534-6580	M-F 8-5 CST 281-534-2630	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
Memory 4 Less 2622 W Lincoln Ave, Ste 104 Anaheim, CA 92801	M-F 9:30-5:30 PST	800-821-3354 F714-821-3361	Same 800-821-3354	Y	Y	N	N	VI,MO,MC,CK CD	Y	1 yr	N	Varies	N
Memory Express 15140 Valley Blvd City of Industry, CA 91744	M-F 8-5 Sat 8-2:30 PST	800-877-8188 F626-369-1236	NA	Y	Y	N	N	VI,PO,MO,MC CD	Y	Life/30 day CPU	N	10%	N

SOURCE DIRECTORY

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Memory Man 7225 NW 25 St, #300 Miami, FL 33122	M-F 9-7 Sat 11-3 EST	800-634-2298 305-418-4149 F305-418-4277	Same 305-418-4149	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	30 day-life	15	15%	N
Micro Exchange Corp 682 Passaic Ave Nutley, NJ 07110	M-F 10-7 Sat 10-4 EST	800-284-9296 201-284-1200 F201-284-1348	NA	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	Replace/90 day	7	15%	N
Micro Outlet 19800 Hawthorne Blvd #258 Torrance, CA 90503	M-F 7-7 Sat 10-2 PST	800-801-4622 310-533-0496 F310-533-0501	M-F 10-6 PST 800-801-4622	Y	Y	N	Y	VI,PO,MC,DI CD,AE	Y	Y	N	15%	N
Micro Pro 5400 Brookpark Rd Cleveland, OH 44129	M-F 9-9 Sat 10-5 EST	800-353-3003 216-661-7218 F216-661-2454	M-F 10-6 EST 800-809-6483	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Micro Pulse 5400 Brookpark Rd Cleveland, OH 44129	M-F 9-9 Sat 10-5 EST	800-785-7324 216-661-7218 F216-661-2454	M-F 10-6 EST 800-809-6483	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1-3 yr	30	10%	N
Micro Time 35375 Vokes Dr, Ste 106 Eastlake, OH 44095	M-F 9-7 Sat 10-5 EST	800-834-0000 216-954-9640 F216-954-9648	M-F 10-7 EST 216-954-9647	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD	Y	Varies/1-3 yr	30	10%	N
Micro Trends 33900 Curtis Blvd #211 Eastlake, OH 44095	M-F 10-7 EST	800-756-1088 216-954-9801 F216-954-9866	M-F 10-6 EST 888-832-4682	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	20%	N
Micro X-Press 5646-48 W 73 St Indianapolis, IN 46278	M-F 9-7 Sat 10-5 CST	800-875-9737 317-328-5780 F317-328-5782	M-F 10-5 CST 317-328-5784	Y	Y	Y	Y	VI,PO,MO,MC DC,CK,CD,AE	Y	Replace	30	20%	N
Micron Electronics 900 E Karcher Rd Nampa, ID 83687	M-F 6-10 Sat 7-5 MST	800-347-3490 208-893-3434 F208-893-3424	24 hrs 800-438-3343	Y	Y	Y	Y	VI,PO,MC,DI CD,AE	Y	Varies	30	N	N
Micronix USA 23050 Miles Rd Cleveland, OH 44128	M-F 8-9 Sat 10-6 EST	800-580-0505 216-475-9300 F216-475-6610	M-F 10-7 EST 216-475-8324	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1-3 yr	30	15%	Y
Microsource 801 Clanton Rd, #108 Charlotte, NC 28217	M-F 9-9 Sat 10-5 EST	888-446-4276 704-529-1031 F704-529-1035	M-F 9-5 EST 888-766-8324	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/Replace/ Varies	30	N	N
MicroWarehouse 1720 Oak St, P.O. Box 847 Lakewood, NJ 08701	24 hrs	800-243-5622 908-370-4779 F908-905-5245	24 hrs 800-660-3222	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	N	N	N
MidWest Micro 6910 US Route 36 E Fletcher, OH 45326	M-F 9-9 Sat 10-4 EST	800-413-9780 F800-862-6622	M-F 9-9 Sat 10-4 EST 800-262-6622	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD	Y	Varies	30	Varies	N
Midwestern Diskette 509 W Taylor Creston, IA 50801	M-F 8-6 CST	800-221-6332 F515-782-4166	M-F 8-5 CST 515-782-5190	Y	N	Y	Y	VI,PO,MO,MC CK,CD	Y	Varies	30	15%	N
Motherboard Express 333 W State Rd Island Lake, IL 60042	M-Th 8-8 Fri 8-6 Sat 9-3 CST	800-560-1195 F847-487-4637	M-F 9-4:30 CST 847-487-4639	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	Varies	30	15%	N
Motherboard Technology 35375 Vokes Dr, #106 Eastlake, OH 44095	M-F 9-7 Sat 10-5 EST	800-784-4831 216-954-9011 F216-954-9648	M-F 10-5 EST 216-954-9013	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	1 yr parts/3 yr systems	30	10%	N
NACOM/Top Data 1105 Fair Oaks Ave Sunnyvale, CA 94089	M-F 8-6 PST	800-888-3318 408-734-9100 F408-734-9340	M-F 8-6 PST 408-734-9340	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1yr parts & labor	30	N	N
NEC Computer Systems 1414 Massachusetts Ave Boxborough, MA 01719	M-F 8:30-8 EST	800-374-8000 508-264-8831	M-F 8:30am-10pm EST 800-374-8000	Y	Y	Y	Y	VI,PO,MO,MC CK,AE	Y	Varies	30	N	Y
Net24seven 2238 N Glassell St. Orange, CA 92865	M-F 7-5 PST	800-977-5779 F714-279-1690	M-F 7-5 PST 800-977-5779	Y	N	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	15%	N
NETLUX 14180 Live Oak Ave, Unit E Baldwin Park, LA 91706	M-F 8-6 PST	800-789-1780 626-851-9737 F626-851-9837	Same 626-851-9737	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	5 yr	30	N	N
New Age Micro Corp 145 Alpha Pk Highland Hts, OH 44143	M-F 9-9 Sat 10-5 EST	888-639-2432 216-605-0644 F216-605-0944	Same 216-605-0644	Y	Y	N	N	VI,MO,MC,CK CD,AE	Y	1-3 yr	30	20%	N

SOURCE DIRECTORY

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NIMBLE Technology Corp 16666 Johnson Dr City of Industry, CA 91745	24 hrs	888-680-3888 626-369-7879 F626-369-8958	Same	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	N	N
North American CAD Company 1061 E Main St, Ste 200 E Dundee, IL 60118	M-F 7:30-7 Sat 10-4 CST	800-619-2199 F847-426-2144	M-F 7:30-7 Sat 10-4 CST 847-426-2120	Y	N	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf/1 yr - life	30	5 - 15%	N
NRI Schools 4401 Connecticut Ave NW Washington, DC 20008	M-F 8-4:45 EST	202-244-1600 F202-244-2047	Same 202-244-1600	Y	Y	Y	Y	VI,MC	N	1 yr	NA	NA	N
Nurol-Direct 3133 Maple Dr, Ste 180 Atlanta, GA 30305	M-F 8:30-6:30 EST	800-390-6623 404-713-2554 F404-239-9607	Same 404-239-9637	Y	Y	N	Y	VI,MO,MC,CD AE	Y	1 yr	30	Varies	N
Nutrend 1201 John Reed Ct City of Industry, CA 91745	M-F 8:30-5:30 PST	888-482-6678 626-937-2311 F626-937-2330	Same 626-937-2345	Y	Y	N	N	VI,PO,MO,MC DI,CD,AE	Y	Varies	30	15%	N
NWCD 110 McGaw Dr Edison, NJ 08837	M-Th 9-9 F 9-3 Sun 10-5 EST	800-747-6923 908-747-6923 F800-329-6923	M-F 10-5 EST 908-417-4455	Y	N	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	14	Varies	N
Omni-Data Communications 906 N Main, Ste 3 Wichita, KS 67203	M-F 8-5 CST	800-922-2329	Same 316-264-5589	Y	Y	Y	Y	VI,PO,MO,MC CK,CD	Y	Varies	30	15%	N
Omnitech Gencorp 1441 NW 89 Ct Miami, FL 33172	M-F 8-8 EST	800-222-9618 305-599-9898 F305-594-2997	M-F 8-6 EST 305-599-9898	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	30 day-3 yr	Varies	Varies	N
P.O.S. International 5300 N Federal Hwy Ft Lauderdale, FL 33308	M-F 8:30-7 EST	800-646-4767 F305-772-9806	Same 305-772-8995	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	Y	1-5 yr	30	20%	N
Patriot Systems 5757 N Lovers Ln Milwaukee, WI 53225	M-F 8-7 Sat 9-4 CST	800-728-3617 414-760-5300 F414-358-5310	M-F 8-5 CST 800-728-3617	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr	30	15%	N
PC America/The General Store 60 N Harrison Ave, Ste 40 Congers, NY 10920	M-F 8-7 EST	800-722-6374 914-267-3500 F914-267-3550	Same 914-267-3549	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	N	N
PC Command 11841 Wilshire Blvd W Los Angeles, CA 90025	M-Sat 9-6 PST	888-883-8008 310-235-2570 F310-235-2574	Same 888-883-8008	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr parts/labor	30	N	N
PC Computer Solutions 130 W 32 St New York, NY 10001	M-Sat 9-7 Sun 11-5 EST	800-573-6245 800-685-3344 F212-629-0798	M-Sat 10-6 EST 212-629-8300	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	7	5%	N
PC Importers 290 Lena Dr Aurora, OH 44202	M-F 9-7 Sat 10-5 EST	800-886-5155 F216-487-5242	M-F 10-6 EST 800-698-3820	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace	30	20%	N
PC Mall 2645 Maricopa St Torrance, CA 90503	24 hrs	800-555-6255 F310-225-4004	M-F 6-6 Sat 8-5 EST 800-760-0300	Y	N	Y	Y	VI,MO,MC,DI CK,CD,AE	Y	Manuf	Varies	Varies	N
PC Portable Manufacturer 1431 Potrero Ave, Unit E S El Monte, CA 91733	M-F 8-5 PST	800-818-2819 626-444-3585 F626-444-1027	Same 626-444-7606	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Manuf/1yr	2 wks	15%	N
PC Universe 2302 N Dixie Hwy Boca Raton, FL 33431	M-F 8:30-6 Sat 10-6 EST	800-728-6483 407-447-0050 F407-447-7549	M-F 10-6 EST 800-728-6483	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf	15-30	Varies	N
PC Zone 707 S Grady Way Renton, WA 98055	24 hrs	800-258-2088 F206-430-3500	M-F 6-6 PST 800-248-9948	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/manuf	30	15%	N
PC4SALE 8950 NW 27th St Miami, FL 33172	M-F 9-6 EST	888-729-7253 305-594-3022 F305-591-3723	M-F 9-5 EST 305-594-3022	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	Y	Manuf	30	15%	Y
Pre-Owned Electronics 125 Middlesex Turnpike Bedford, MA 01730	M-F 9-5 EST	800-274-5343 781-275-4600 F781-275-4848	Same 800-274-5343	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	6 mo	N	20%	N
Princeton Direct 135 Village Blvd Princeton, NJ 08540	M-Th 10-8 F Varies Sun 10-4 EST	888-868-4537 F609-734-9329	M-Th 10-6 F 10-2 EST 609-520-0200	Y	N	Y	Y	VI,PO,MC,DI DC,CK,CD,AE	Y	Manuf	14	5-10%	N

SOURCE DIRECTORY

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Princeton Graphic Systems 2801 S Yale St, Ste 110 Santa Ana, CA 92704	M-F 5am-5:30pm PST	800-747-6249 714-751-8405 F714-751-5736	Same 800-747-6249	Y	Y	Y	N	PO,CK,CD	Y	Limited/3 yr	Varies	Varies	N
Printer Connection PO Box 927240 San Diego, CA 92192	M-F 6am-5pm PST	800-479-6090 800-479-6091 F619-587-9001	Same 800-479-6092	Y	Y	N	Y	VI,MO,MC,DI CK,AE	Y	Manuf	30	Varies	N
Professional Technologies 21038 Commerce Pointe Dr Walnut, CA 91789	M-F 7-7 Sat 9-6 PST	800-949-5018 909-468-1368 F909-468-1372	M-F 9-5 PST 800-787-8987	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	N	1 yr	30	N	N
Progen Technology 15501 Red Hill Ave Tustin, CA 92680	M-F 7-7 PST	800-848-8777 F714-566-9267	Same 800-848-8767	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	3 yr	30	N	N
ProSource Power 107 Whitman Dr Schaumburg, IL 60173	M-F 7-6 CST	800-949-4797 708-350-7886 F708-350-8136	M-F 7-6 CST 800-949-4797	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	Varies	N	Varies	N
Prostar Computer 1128 Coiner Ct City of Industry, CA 91748	M-F 7:30-6 Sat 9-3 PST	800-576-1134 626-854-3428 F626-854-3438	M-F 8:30-5:30 PST 800-576-1134	N	Y	N	N	VI,PO,MC,CK CD,AE	N	1 yr	30	N	N
Qualstar Corp 9621 Irondale Ave Chatsworth, CA 91311	M-F 8-5 PST	818-882-5822 F818-882-4081	Same 818-882-5822	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	1 yr	30	15%	Y
Quanta 2629 Terminal Blvd Mountain View, CA 94043	M-F 9-5 PST	800-682-1738 415-967-5791 F415-967-8762	Same 415-967-5791	Y	Y	N	N	VI,MO,MC,CK CD,AE	Y	90 day	30	N	N
Quantex Microsystems 400B Pierce St Somerset, NJ 08873	M-F 9-12 Sat 9-6 EST	800-836-0566 800-836-0566 F908-563-0407	M-Th 9-12 Sat & Sun 9-6 EST 800-864-8650	Y	N	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/1 yr	30	N	N
Quick Line Micro 26001 Miles Rd, Unit 8 Warrensville Hgts, OH 44128	M-F 9-9 Sat 10-5 Sun 12-5 EST	800-808-3606 216-514-9800 F216-514-9805	Same 216-514-9800	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	1 yr parts	30	20%	N
Rock Hill Computer 1807 #131 Cherry Rd Rock Hill, SC 29732	M-F 9-6 Sat 10-6 EST	800-339-9679 803-325-7763 F803-325-7702	M-F 9-6 Sat 10-6 EST 800-339-9679	Y	Y	Y	N	VI,MO,MC,DI CD,AE	Y	2-5 yr	30	20%	N
Royal Computer 1208 John Reed Ct City of Industry, CA 91745	M-F 7-6:30 Sat 9-4 PST	800-486-0008 626-855-5077 F626-330-2717	M-F 9-6 Sat 10-4 PST 800-486-2708	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/3 yr	30	N	N
S & W Computers & Electronics 31 W 21 St New York, NY 10010	M-Th 9-6 F 9-2 Sun 10-5 EST	800-874-1235 212-463-8330 F212-463-8335	Same 212-463-8330	Y	Y	N	N	VI,PO,MC,DI CK,CD	Y	Manuf	Varies	Varies	N
S.A.G. Electronics 868 Turnpike St N Andover, MA 01845	M-F 8-7 EST	800-989-3475 508-682-0055 F508-689-0180	* 800-899-5752	Y	Y	Y	N	VI,PO,MC,CD	Y	Manuf	30	Varies	Y
Sager 18005 Cortney Ct City of Industry, CA 91748	M-F 7-6 Sat 9-3 PST	800-669-1624 626-964-8682 F626-964-2381	M-F 8:30-5:30 PST 800-741-2219	Y	Y	N	Y	VI,PO,MC,DI CK,CD,AE	Y	Manuf/1 yr	30	N	N
Sam's Computers 26309 Miles Rd Unit 6 Cleveland, OH 44128	M-F 9-8 Sat 10-5 EST	888-974-7267 216-378-1400 F216-378-1409	M-F 10-7 Sat 10-5 EST 216-378-1407	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Life labor/3 yr sys/1 yr parts	30	15%	N
Shecom Computers 3981 E MiraLoma Ave Anaheim, CA 92806	M-F 7-6 PST	800-366-4433 714-579-7600 F714-579-7688	M-F 10-5 PST 800-366-4433	Y	Y	N	N	VI,PO,MC,DI CK,AE	Y	Manuf/ life on memory	7	15%	N
Siliconrax 1050 E Duane Ave, Bldg #I Sunnyvale, CA 94086	M-F 8-6 PST	800-700-8560 408-720-1090 F408-245-2570	Same 408-720-1090	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	1 yr	30	15%	N
Sony ITA 3200 Zanker Rd San Jose, CA 95134	NA	888-870-7669	24hrs 800-476-6972	N	N	Y	N	VI,MC,DI,AE	Y	Varies	30	NA	N
Source Graphics 1540 E Katella Ave Anaheim, CA 92805	M-F 8-5 PST	800-553-5285 714-939-0114 F714-939-0525	Same 714-939-0124	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	Y	Varies	Varies	15%	Y
Springs Electronics 4273 Solar Way Fremont, CA 94538	24hrs	888-732-3366 510-226-6177 F510-226-6178	M-F 9-5 PST 510-226-6177	Y	Y	N	N	VI,MC,CD	Y	30 day - life/ varies	30	15%	N

SOURCE DIRECTORY

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
Storage USA 101 Reighard Ave Williamsport, PA 17701	24 hrs	800-538-3475 717-327-9200 F717-327-1217	M-F 8-5:30 EST 800-221-4283	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Sunshine Computer & Video 1172 Coney Island Ave Brooklyn, NY 11230	Sun 10-6 M-Th 10-8 F 10-5 EST	800-331-6251 718-434-1500 F718-434-0960	M-F 10-6 EST 718-434-1500	Y	Y	N	N	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	7	5%	N
Tagram Systems 1451-B Edinger Ave Tustin, CA 92680	M-F 7-6 Sat 9-4 PST	800-824-7267 714-258-3222 F714-258-3220	M-F 9-6 Sat 9-2 PST 800-443-5761	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1 yr	30	N	N
TC Computers 5005 Bloomfield Jefferson, LA 70121	M-F 7-8 Sat 9-5 CST	800-723-8282 504-733-2527 F504-733-3890	Same 800-723-6380	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf	20	N	N
Team Force 14102 E Firestone Blvd Sante Fe Springs, CA 90670	M-F 8:30-5 Sat 9-2 PST	800-200-6118 F310-404-8525	M-F 8:30-5 PST 310-404-9725	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	1 yr	30	15%	N
Technology Distribution Network 1000 Young St, Ste 270 Tonawanda, NY 14150	M-F 9-7 Sat 10-5 EST	800-420-3636 716-743-0195 F716-743-0198	Same 800-420-3636	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	N	N
Tempest Micro 375 N Citrus Ave, #611 Asvza, CA 91702	M-F 8-6:30 Sat 9-4 PST	800-818-5163 818-858-5163 F818-858-5166	Same 800-848-5167	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD	Y	2 yr	30	15%	N
The Computer Specialist 10435 Santa Monica Blvd Los Angeles, CA 90025	M-Sat 8-6 PST	800-533-9005 310-446-1771 F310-475-7744	M-F 9-6 PST 310-446-1771	Y	Y	Y	Y	VI,PO,MC,CK AE	Y	Manuf	N	20%	Y
The Software Source 1750 Brielle Ave Ocean, NJ 07712	M-F 9-7 Sat 10-5 EST	800-289-3275 908-695-2100 F908-695-9371	*	Y	N	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	N	15%	N
TigerDirect 8700 W Flagler St Miami, FL 33174	M 8am-Mid Tu-Sat 24 hrs Sun Mid- 11pm EST	800-888-4437 305-229-1119 F305-228-3395	M-Sat 8am-12am EST 905-264-7400	Y	N	N	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Varies by Manuf	Varies	N	N
Treasure Chest Peripherals 5005 Bloomfield Jefferson, LA 70121	M-F 7-11 Sat 9-8 Sun 11-5 CST	800-677-9781 504-733-2527 F504-733-3890	Same 800-723-6380	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf	20	N	N
Tri-State Computer 650 Sixth Ave New York, NY 10011	M-Th 9-6 F 9-2 Sun 10-5 EST	800-433-5199 212-633-2530 F212-633-2218	M-Th 10-5 F 10-1 EST 212-633-6807	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	33	N	N
TrueData Products 775 Quaker Hwy, P.O. Box 347 Uxbridge, MA 01569	M-F 9-6 Sat 10-2 EST	800-635-0300 508-278-6555 F508-278-6748	M-F 10-4 EST 508-278-6555	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	3	Varies	N
Umax System Sales 3485 Kifer Rd Santa Clara, CA 95051	M-F 6-6 Sat-Sun 9-6 PST	888-289-8629 408-617-0270 F408-735-0222	24 hrs 800-367-7794	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	3 yr/1 yr onsite	30	N	N
Unicore Software 1538 Turnpike St N Andover, MA 01845	M-F 9-5:30 EST	800-800-2467 F508-683-1630	M-F 9:30-5 EST 508-686-2204	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	1 yr	15	20%	N
Upgrades International 1060 W Frankford Rd, Ste 214 Carrollton, FL 75007	M-F 9-6 CST	800-234-4258 972-394-9711 F972-395-9229	M-F 10:30-4:30 CST 972-394-9711	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD	Y	Varies	30	Varies	N
USA Flex 471 Brighton Dr Bloomingdale, IL 60108	M-F 24 hrs Sat-Sun 9-4 CST	800-872-3539 F630-351-7204	24 hrs 630-351-7172	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	0-20%	N
Vektron International 2100 N Hwy 360, Ste 1904 Grand Prairie, TX 75050	M-F 8-8 Sat 10-5 CST	800-725-0020 972-606-0280 F972-606-1278	24 hrs 888-732-2778	Y	Y	N	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	3yr limited parts/1yr on-site service	30	N	N
ViewSonic 20480 Business Pkwy Walnut, CA 91789	M-F 7-6 PST	800-888-8583 909-869-7976 F909-869-7958	Same 800-888-8583	N	N	N	N	NA	N	Varies	N	N	N
Wetex International (USA) Corp 624 S Hambledon Ave City of Industry, CA 91744	M-F 8:30-5 PST	800-759-3839 626-854-6600 F626-854-6611	Same 626-854-6603	Y	Y	N	N	VI,PO,MO,MC DI,CD	Y	1 yr	30	15%	N

SOURCE DIRECTORY

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
WinBook Computer Corp 1160 Steelwood Rd Columbus, OH 43212	M-F 8am-9pm Sat 9-4 EST	800-468-2162 800-468-7502 F800-448-0308	Same	N	N	N	N	VI,MC,DI,CK	Y	1 yr	30	N	N
Worthington Data Solutions 3004 Mission St, Ste 220 Santa Cruz, CA 95060	M-F 6:30-5 PST	800-345-4220 F408-458-9964	Same	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	2 yr	30	Varies	N
X Technology 5275 Naiman Pkwy, Unit C Solon, OH 44139	M-F 9-7 Sat 10-5 EST	800-910-0078 216-498-1222 F216-498-8857	M-F 10-5 EST 888-272-4440	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1-3 yr	30	15%	N
Xirlink 2210 O'Toole Ave San Jose, CA 95131	M-F 8-6 PST	408-324-2100 F408-324-2101	M-F 9-6 PST 408-324-2100	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Manuf/1yr	30	10%	N
Xpress Services Distribution 47 Washington Ave Carteret, NJ 07008	M-F 9-7 Sat 9-8 Sun 12-5 EST	800-787-1704 F732-969-2045	M-F 9-7 EST 732-969-9501	Y	Y	Y	N	VI,PO,MO,MC CD,AE	Y	Replace/3yr parts	15	25%	N
Yokohama Telecom Corp 1251 Manassero St, #401 Anaheim, CA 92807	M-F 9-6:30 PST	800-965-6426 714-693-1870 F714-693-1871	Same	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1-5 yr	30	10%	N
Yorkshire Computers 11515 W Carman Ave Milwaukee, WI 53225	M-F 8-8 Sat-Sun 9-4 CST	800-375-1667 414-358-5309 F414-358-5310	M-F 8-5 CST 414-358-5306	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr parts/life labor	30	15%	N
Zenon Computer Systems 18343 Gale Ave City of Industry, CA 91748	M-F 7-7 Sat 9-4 PST	800-899-6119 626-935-1860 F626-935-1826	M-F 8-6 PST 800-229-7898	Y	N	N	N	VI,PO,MC,DI CD,AE	Y	2 yr	30	N	N

Manufacturers

Company Name	Business Hours	Phones	Technical Support
A-Trend Technology Corp 46600 Fremont Blvd Fremont, CA 94538	M-F 8:30-6 PST	800-866-0188 510-226-6290 F510-226-6296	M-F 8:30-6 PST 800-866-0188
Canon Computer Systems 2995 Redhill Ave Costa Mesa, CA 92626	M-F 8-5 EST	800-848-4123 F800-526-4345	M-F 8-11 Sat 11-6 EST 800-423-2366
Diamond Multimedia Systems 2880 Junction Ave San Jose, CA 95134	M-F 8-5 PST	408-325-7000 F408-325-7070	M-F 8-5 PST 800-468-5846
Giga Byte Technology 18305 Valley Blvd., suite A La Puente, CA 91744	*	626-854-9338 F626-854-9339	*
Hansol Multitech 6 Center Pointe Dr, Ste 220 La Palma, CA 90623	M-F 8:30-5:30 PST	888-426-7651 714-562-5151 F714-562-5155	M-F 8:30-5:30 PST 714-562-5151
Iomega Corp 1821 W Iomega Way Roy, UT 84067	*	800-697-8833 801-778-1000 F801-778-3748	801-629-7629
Lexmark International 740 New Circle Rd NW Lexington, KY 40511	M-F 8-5 EST	800-438-2468 606-232-2000 F606-232-5939	* 606-232-3000

SOURCE DIRECTORY KEY

PAYMENT OPTIONS

VI	Visa
AE	American Express
MC	MasterCard
DC	Diner's Club
DI	Discover
CD	C.O.D.
PO	Purchase Order
CK	Cashier's/Personal Check
MO	Money Order

GENERAL

Y	Yes
N	No/None
NA	Not Available
F	Fax Number
*****	Information Not Provided

WARRANTY

Manuf	Manufacturer's Warranty
Life	Lifetime
Mo	Mo
Unltd	Unlimited
Yr	Year

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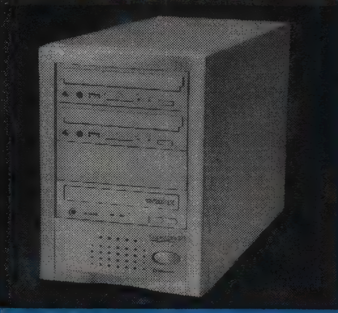

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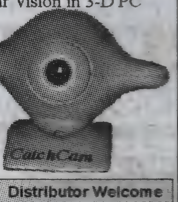

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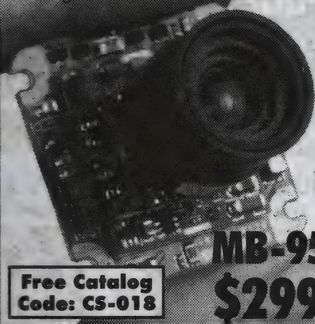

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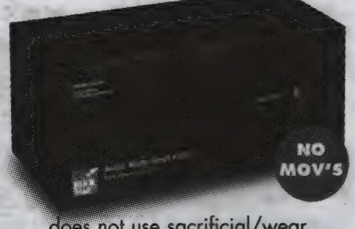

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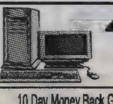

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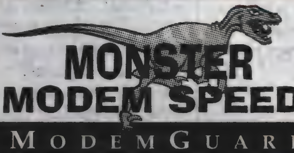

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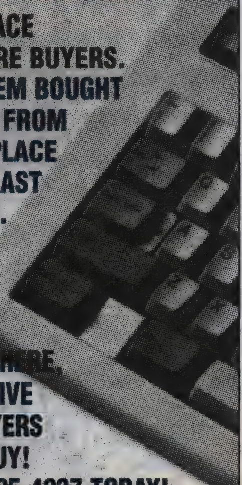

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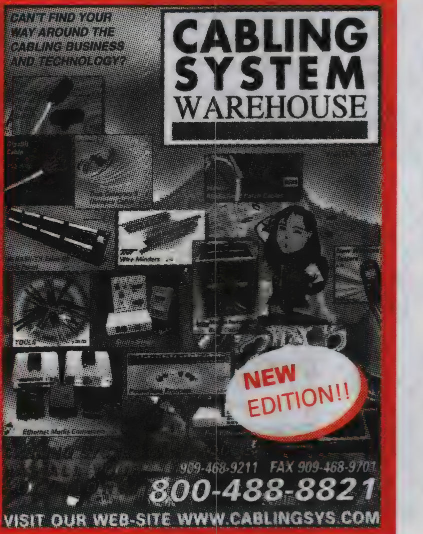
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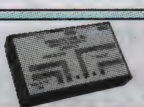

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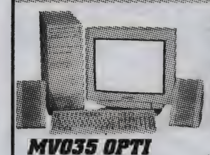

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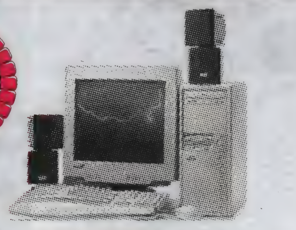

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- SVGA DISPLAY
- 1024 X 768 RESOLUTION
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16MB Ram 1.08GB
Hard Drive 6x CD Rom
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NEC C500 15" SVGA Color Monitor, .28mm 1024 X 768	$179
NEC XV 15 15" SVGA Color Monitor, .28mm 1024 X 768	$345
NEC XV 17+ 17" Color Monitor, .28mm 1280 X 1024	$549
NEC CS500 15" SVGA Color Monitor, .28mm 1024 X 768	$199
Compaq 17" SVGA Color Monitor, .28mm 1024 X 768	$329

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NEC Versa 6030H Pentium 133, 1.35 GB Hard Drive, 16MB Ram, 6X CD, 28.8 Fax/Modem, 11.3 Active Matrix Screen	Closeout Price $1249
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Tracy Baker-PC Today Magazine Nov. 1997

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- **Ensoniq PCI 32 Wavetable Sound**
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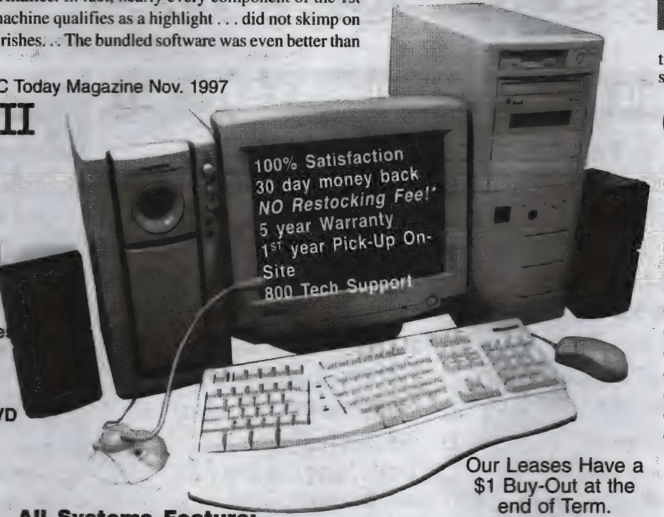
P-II266/300/333 .... 1549/1599/1799
*Intel MMX Systems Include Diamond Stealth Pro PCI
Intel 166/200/233MMX* . 1159/1189/1239



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P-II266/300/333 .... 1369/1439/1639
*Intel MMX Systems Include S3 ViRGE 4MB 3D PCI
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Intel166/200MMX 849/87
Intel233MMX 9

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- 6 Bay Tower Case

MMX 200/233 .... 309/359

Pentium 166MMX $369
- ABIT PX5 MB, 512k PLB Cache
- 32MB SDRAM
- Diamond Stealth Pro 4MB Video
- 7 Bay Mid-Tower Case

MMX 200/233 .... 399/449

P-II 233MHz $645
- TekRam P6L40 MB, 512k PLB Cache
- 32MB SDRAM
- ATi 3D AGP 4MB Video
- ATX Mid-Tower Case

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P-II Dual 233/266/300 .... **849/989/1129**
P6DLS SCSI 2940UW .... +80

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2-168p DIMM, 512k
S1573 ATX add $10
MMX 166/200/233 .... **222/247/297**
AMD K6-166/200 .... **212/237**

S1692SL Tiger ATX $159
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P-II 233/266/300/333 ... **459/539/615/815**

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AMD K6-166/200/233 .... **165/195/245**

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P2L97S 2940UW SCSI .... +90

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P-II Dual 233/266/300 ..... **899/1029/1169**

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Altec Lansing ACS90 .... $45
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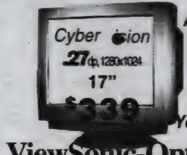
Ensoniq PCI Wave Table 3D Full Duplex $39
Sound Blaster 16 P-n-P $45
Sound Blaster AWE 64 P-n-P $85



All Monitors **3** *Year Warranty*

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15" Cybervision .28dp 1280x1024 $179
15" Q51 .28dp 1024x768 .... $189
15" Q53 .28dp 1280x1024 .... $219
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17" V775 .26dp 1600x1280 .... $475
17" Cybervision Diamondtron .25dp $459
19" V95 .26dp 1600x1280 .... $689
21" Cybervision .25dp 1600x1280 $889
14" .28dp 1024x768 N-I $135

VIDEO CARDS
Trident PCI 64 bit MPEG 2mb $35
Stealth 64 Edge 3D 4mb $75
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3D Xpert@Work AGP, 4mb $135
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3D Xpert@Play AGP,PC2TV 4/8mb .... $155/$185
All-In Wonder 4mb 3D Rage II TV/Capture $175

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- ☐ 60 W Stereo Speakers
- ☐ Microsoft Windows 95
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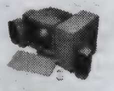
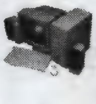


Cyrix 6x86 MX 166/200	$605/619
Intel Pentium 166/200	$669/699
AMD K6 MMX 166/200	$665/695

SYSTEM OF THE MONTH

- ☐ 233MHz Intel Pentium Processor MMX
- ☐ 32MB SDRAM Memory
- ☐ 512K Pipeline Burst Cache
- ☐ 6.5GIG EIDE HDD
- ☐ 4MB S3 ViRGE 3D VIDEO Card
- ☐ 15" .27dp Digital Monitor
- ☐ 24X EIDE CD-ROM Drive
- ☐ Yamaha 32-Bit Wave table 3D Sound Card
- ☐ Stereo 240 Watt Speakers
- ☐ 56K Voice/Fax/Modem
- ☐ 1.44Mb Floppy Disk Drive 3.5"
- ☐ 104-Key Win'95 Keyboard
- ☐ 2-Button Mouse
- ☐ Mid Tower Case 235WPS
- ☐ Microsoft Windows 95
- ☐ Microsoft Office 97 Proffessional
- ☐ Computer Star 1000 title CD Bundle



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AMD K6 MMX 233MHz	$999
Cyrix 6x86 MX 233MHz	$969

MULTIMEDIA BEST BUY

- ☐ Intel 440LX PCI Chipset
- ☐ Intel Pentium II 233MHz Processor
- ☐ 32Mb SDRAM Memory/512Kb Secondary Cache
- ☐ 4.3GIG EIDE HDD
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- ☐ 15" .27dp Digital Color Monitor
- ☐ 24X EIDE CD-ROM Drive
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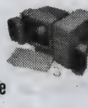
- ☐ 200Watt Subwoofers Speakers
- ☐ 56K Voice Fax/Modem
- ☐ 1.44Mb Floppy Disk Drive 3.5"
- ☐ 104 Win 95 Keyboard
- ☐ 3 button Mouse
- ☐ Microsoft Windows 95
- ☐ Microsoft Office Pro 97 Full Package
- ☐ Computer Star 1000 Title Cd Bundle
- ☐ ATX Mid Tower 250WPS



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Intel Pentium II 266MHz	$1259
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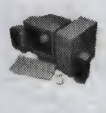
- ☐ 56K Voice Fax/Modem
- ☐ 1.44Mb Floppy Disk Drive 3.5"
- ☐ 104 key Win 95 Keyboard
- ☐ Microsoft 2 button Mouse
- ☐ Microsoft Office 97 Professional
- ☐ Microsoft Windows 95
- ☐ Computer Star 1000 Title CD Bundle
- ☐ ATX Mid Tower Case 250WPS



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Intel Pentium II 233MHz	$1899
Intel Pentium II 266MHz	$1950
Intel Pentium II 300MHz	$1999

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- 56K Fax/Voice Modem
- 24X EIDE CD-ROM
- Yamaha 32bit, Stereo with w/table
- Stereo 240 Watt Speakers
- 104 key Win 95 Keyboard
- 2 Button Mouse
- Mini Tower Case 235WPS
- Microsoft Windows 95
- Computer Star 1000 Title CD Bundle

Pentium MMX 166MHz	$879
Pentium MMX 200MHz	$909
Pentium MMX 233MHz	$969

STAR SPECIAL # 2

- Pentium MMX 430TX Chipset
- 512 Pipline Burst Cache
- 32Mb SD RAM 10NS Memory
- 3.5GIG Fujitsu EIDE HDD
- Mitsumi 1.44Mb 3.5 FDD
- 4Mb Video Card S3 ViRGE 3D 64Bit
- 15" .27 Digital Monitor
- 56K Rockwell Chipset Voice/Fax Modem
- 24X EIDE CD-ROM
- Yamaha 16Bit 3D Sound Card w/Wave Table
- Stereo 80Watt Speakers
- Mini Tower Case 235 wps
- 104 key Win 95 Keyboard
- 2 button Mouse
- Microsoft Windows 95
- Computer Star 1000 Title CD Bundle

CYRIX 6X86 MX 166MHz	$799
CYRIX 6X86 MX 200MHz	$819
CYRIX 6X86 MX 233MHz	$859

STAR SPECIAL # 3

- Intel 440LX Chipset
- 512 Pipline Burst Cache
- 64Mb SD RAM 10NS Memory
- 6.4GIG Hard Drive
- Mitsumi 1.44Mb 3.5 FDD
- 4Mb S3 ViRGE 3D Video Card
- 15" .27 Digital Monitor
- ATX Mid Tower Case 250WPS
- 56K Rockwell Chipset Fax w/Voice Modem
- 32X EIDE CD-ROM Drive
- Sound Blaster AWE 64 Value
- Stereo 240 Watt Speakers
- 104 key Win 95 PS2 Keyboard
- 2 button Mouse
- Microsoft Windows 95
- Computer Star 1000 Title CD Bundle

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Intel Pentium II 266MHz	$1459
Intel Pentium II 300MHz	$1569
Intel Pentium II 333MHz	$1799

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- TX 512K Pipeline Burst Cache
- Built-in PCI Enhanced IDE Controller w/UART 16550 Fast I/O
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- Mitsumi 1.44MB 3.5" FDD
- 4MB S3 ViRGE 3D Video Card
- 15" .27 Digital Monitor
- Mini-tower Case w/235 WPS
- 56K Voice/Fax/Modem
- 24X EIDE CD-ROM Drive
- Yamaha 16Bit 3D Sound Card w/wave table
- 240 W Amplified Hi-Fi Stereo Speakers
- 104 key Win 95 Keyboard
- 2 button Mouse • Microsoft Windows 95
- Computer Star 1000 Title CD Bundle

AMD MMX K6-166MHz	$875
AMD MMX K6-233MHz	$959
AMD MMX K6-266MHz	CALL

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INTEL MMX 200MHz $314
INTEL MMX 233MHz $339
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Cx 6X86 MX PR-200MHz $279
Cx 6X86 MX PR-233MHz $329
AMD K6-200MMX $309
AMD K6-233MMX $335
AMD K6-266MMX ..... CALL

BARBONE SPECIAL - 72 HOURS TESTED

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INTEL P-II MMX 233MHz $563
INTEL P-II MMX 266MHz $673
INTEL P-II MMX 300MHz $699
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BARBONE STAR - 72 HOURS TESTED

TX MOTHERBOARD & CPU, 32MB SD RAM, 1.44MB FDD, WD 3.2GB ULTRA HDD, 4MB S3VIRGE V. CARD, MINITOWER CASE 235 WPS

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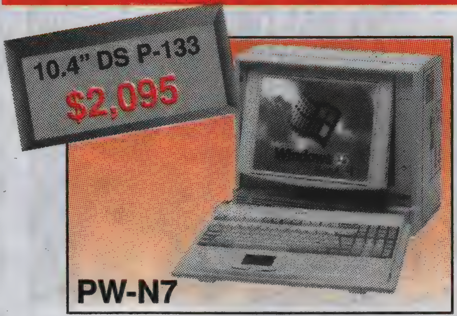

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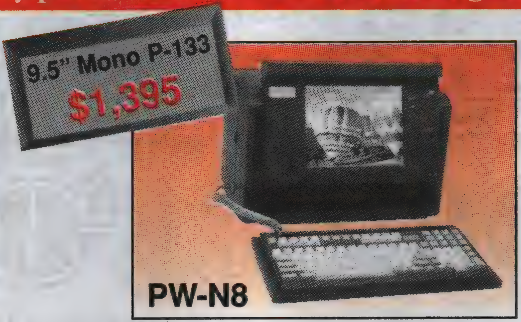

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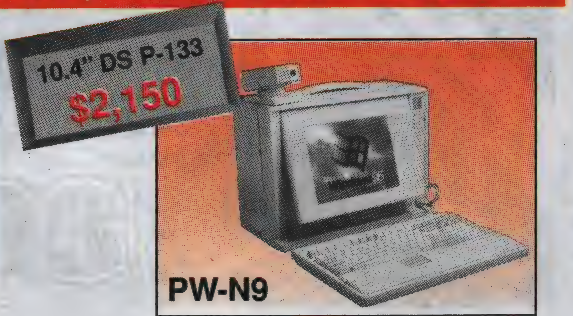

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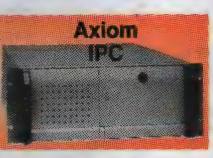

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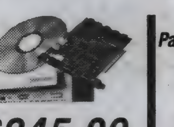

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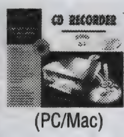

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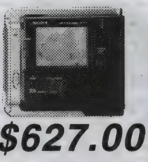

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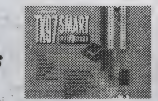

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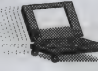

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CLEVELAND, Ohio — STEP-UP™ ElectroThermal CPU Refrigeration Systems are quite possibly one of the most exciting upgrades you can make to your PC. **They offer a radical enhancement to the stability and speed of your computer**. STEP engineer Roger Fisch explains, "Heat is the number one enemy of any CPU. As CPU temperatures increase, stability and speed decrease." Roger further explains, "This holds true of most any electronic device, not just CPU's. Our CPU coolers are **active**, not passive devices, designed to **force** your CPU to run far below those much too lenient temperature specifications given by the major CPU manufacturers."

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Naturally, cautious consumers will ask, "What about a warranty?" STEP is so confident in the quality and performance of their STEP-UP™ ElectroThermal CPU Refrigeration Systems that **they warrant both their STEP-UP™ CPU Refrigeration Systems and the corresponding CPU's for life.** 'President's Picks' upgrades are **automatically sold at distributor's cost**, and are warranted by the corresponding manufacturers.

STEP representative Margorie McDuff admits, "We are new to the 'Direct' market. However, we have been around for many years faithfully serving the OEM market". Margorie adds, "Along with our corresponding manufacturers, STEP has spent hundreds of thousands of dollars in R&D to ensure that nothing less than a perfect product arrives at your doorstep. Furthermore, we all know that while not everyone will buy their next hardware upgrade from us, **we're still widely known as the industry's price and product reference. If you've ever wondered what some of the most popular PC upgrades really cost, look us up.**"

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*To make life simple, **STEP automatically sells all CPU's and 'President's Picks' upgrades at distributor's cost** with the purchase of a corresponding STEP-UP™ ElectroThermal CPU Refrigeration System. STEP can be reached at **(888) 519-STEP** or by visiting their Web site at **www.STEP-ThermoDynamics.com**.*

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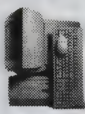

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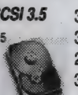

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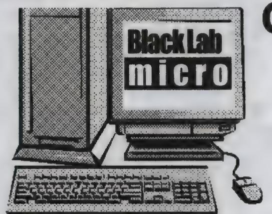

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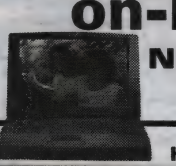

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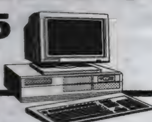

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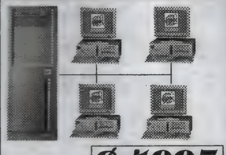

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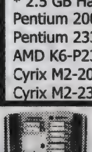

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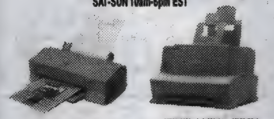

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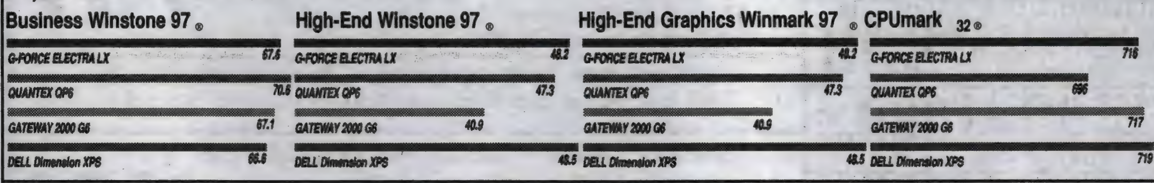

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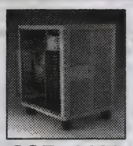

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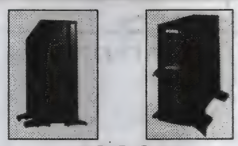

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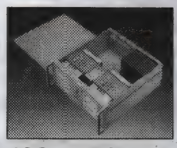
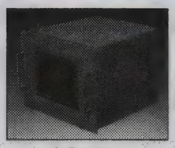


ICS-779/780
$355



ICS-610
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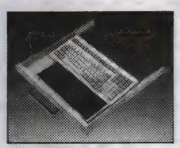

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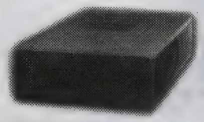
$185

External Drive Boxes/Raid Enclosures



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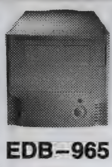

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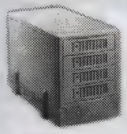

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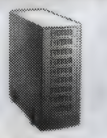

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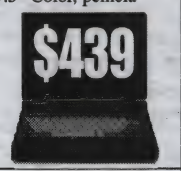

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16X CD, 64 SOUND	16X CD, 64 SOUND	24X CD, 64 SOUND
80W STEREO SPEAKERS	80W STEREO SPEAKERS	80W STEREO SPEAKERS
33.6K VOICE-FAX-MODEM	56K VOICE-FAX-MODEM	56K VOICE-FAX-MODEM
104 KEYBOARD,PS-2 MOUSE	104 KEYBOARD, PS-2 MOUSE	104 KEYBOARD, PS-2 MOUSE
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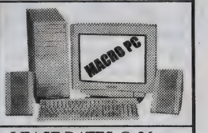
Intel MMX-233 $789	Intel MMX-233 $889	Pentium II-333 $1629



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AMD K6-166MMX	925
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- CPU Cooling Fan

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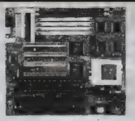
Amptron



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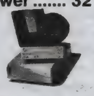

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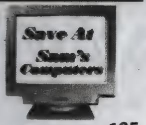

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Intel Pentium II 300	$CALL
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AMD K6-166MMX	$169
AMD K6-200MMX	$185
AMD K6-233MMX	$215
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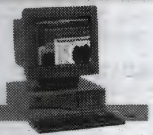

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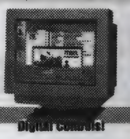

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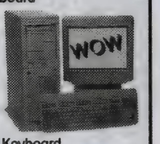

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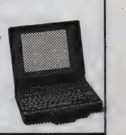

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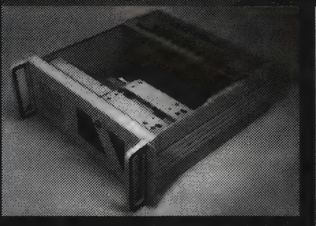

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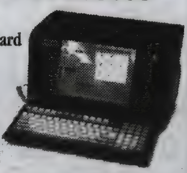

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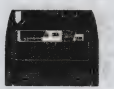

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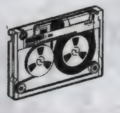

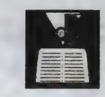

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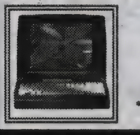

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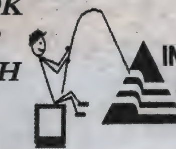

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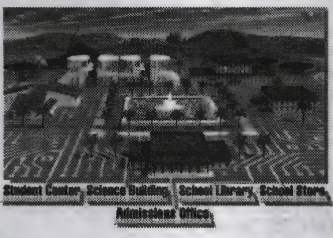

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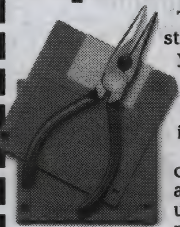

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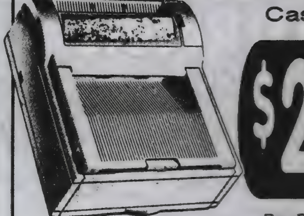

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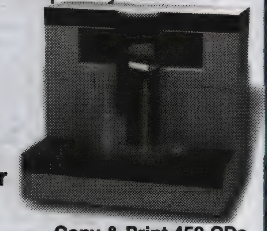

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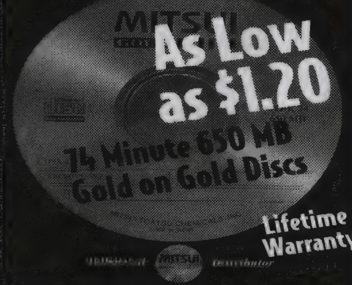

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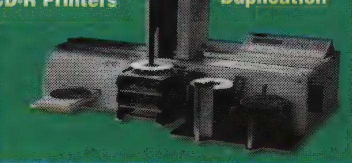

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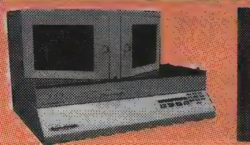

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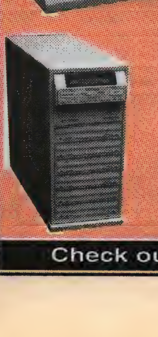

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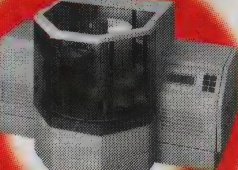

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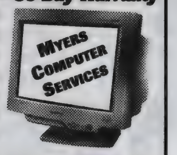

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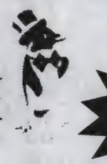

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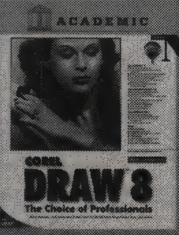

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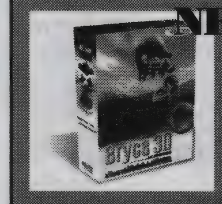

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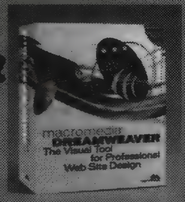

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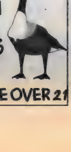

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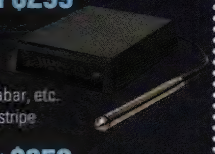

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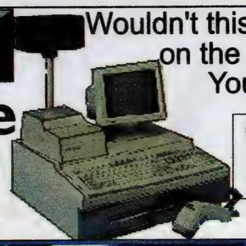

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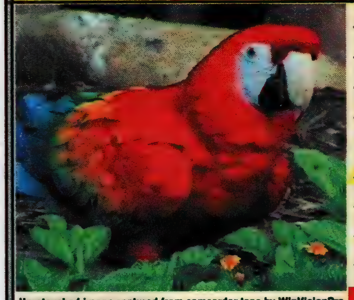

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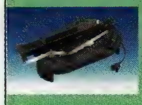

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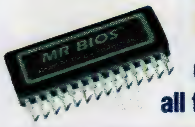

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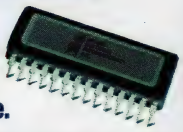

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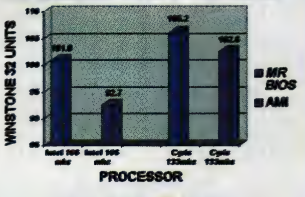

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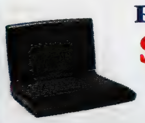

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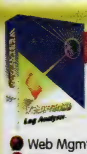

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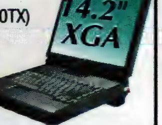

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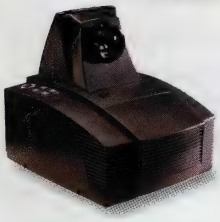

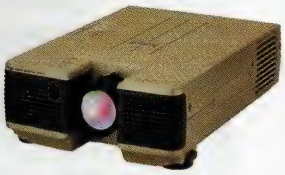

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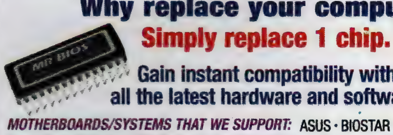

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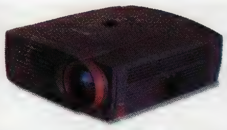

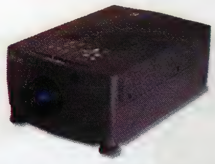

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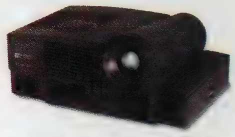

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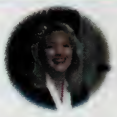

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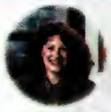

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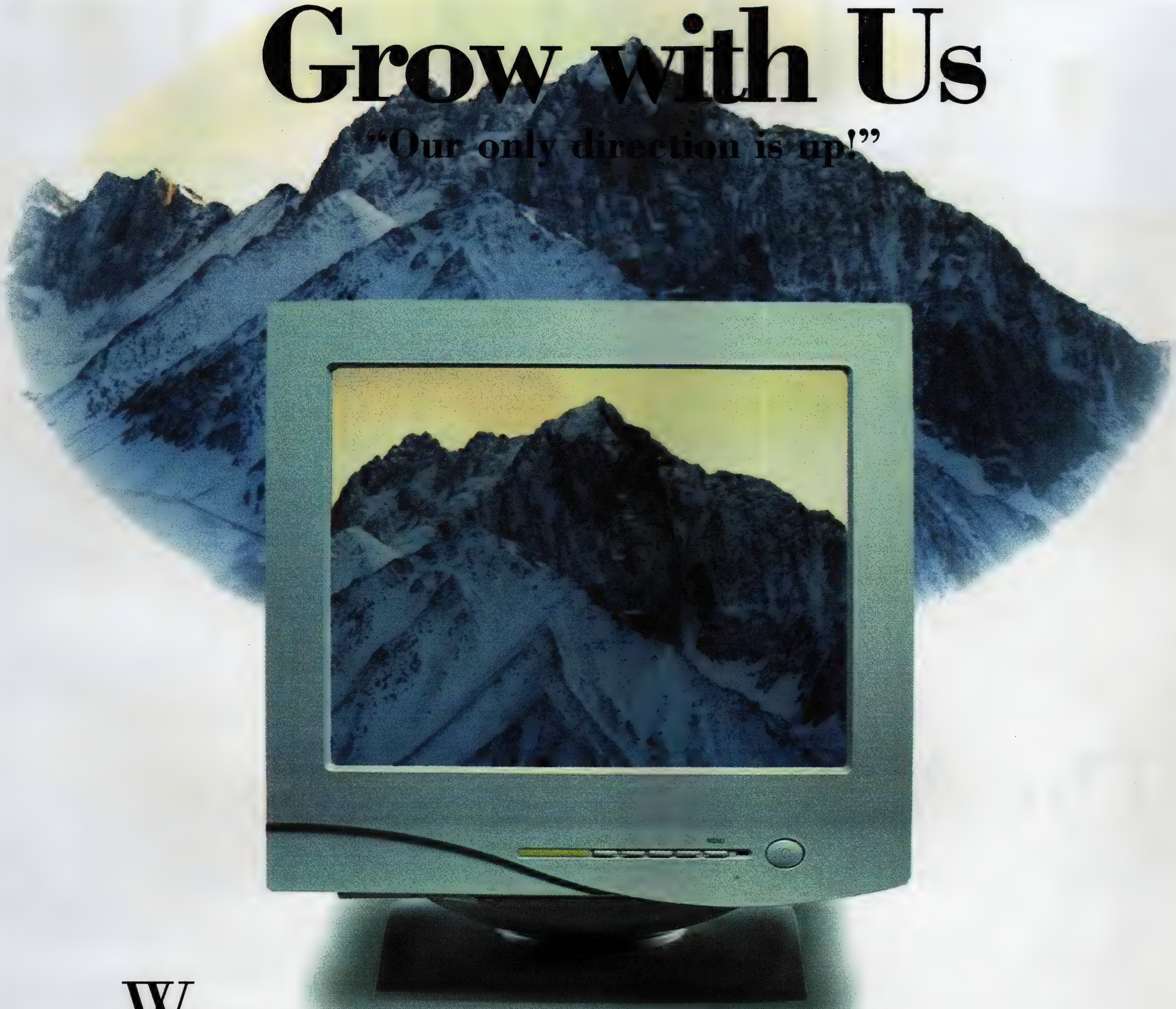

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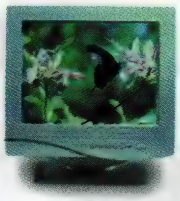

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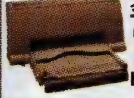

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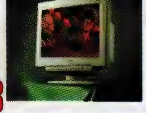

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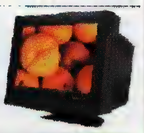

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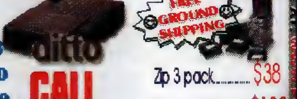

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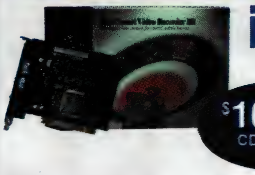

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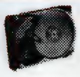

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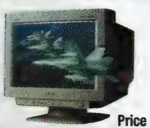

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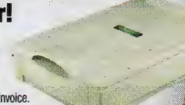

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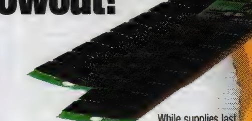

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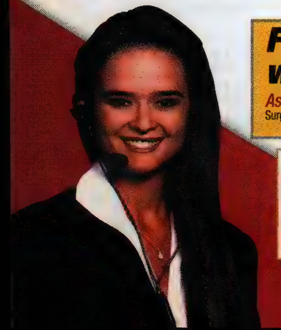

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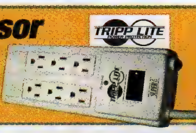

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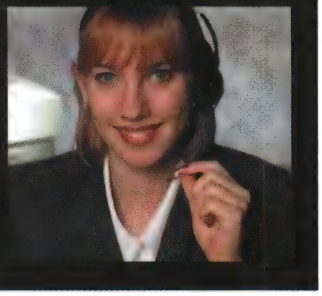

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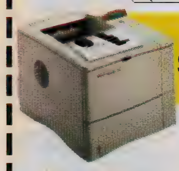

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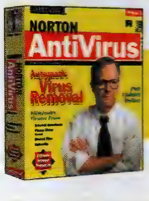

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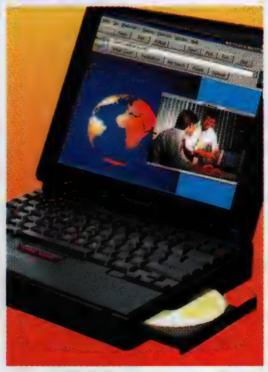

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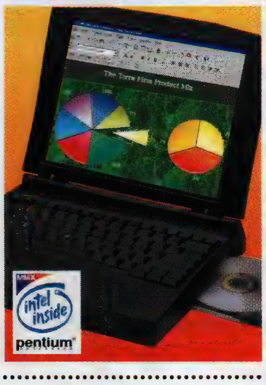

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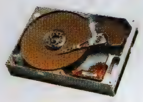

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DR7764	KO186400D	6.4GB	ULTRA DMA	$249.95*
DR6888	KO187000D	7.0GB	ULTRA DMA	$279.95*
DR7100	KO188400D	8.4GB	ULTRA DMA	$299.95*
DR8040	KO191150D	11.5GB	ULTRA DMA	$429.95*

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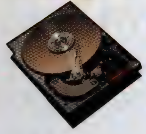

Item #	Model	Capacity	Interface	Price
DR7324	ST31722A	1.7GB	ULTRA ATA	$139.95
DR7251	ST32122A	2.1GB	ULTRA ATA	$149.95
DR7253	ST33232A	3.2GB	ULTRA ATA	$179.95
DR7252	ST34342A	4.3GB	ULTRA ATA	$209.95
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Item #	Model	Capacity	Speed	Price
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DR5972	Caviar 34000	4.0GB	5200RPM	$239.95
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DR6912	Caviar 35100	5.1GB	5400RPM	$279.95
DR7049	Caviar 36400	6.4GB	5400RPM	$319.95

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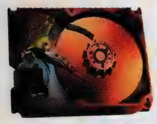

Item #	Model	Capacity	Interface	Price
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DR7645	Fireball SE	3.2GB	Ultra ATA	$199.95
DR7643	Fireball SE	4.3GB	Ultra ATA	$209.95
DR7642	Fireball SE	6.4GB	Ultra ATA	$279.95
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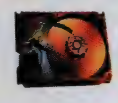
IBM

Item #	Model	Capacity	Price
DR7452	Deskstar 5	4.2GB	$279.95
DR7241	Deskstar 5	6.4GB	$349.95
DR8043	Deskstar	8.4GB	$399.95

SCSI HARD DRIVES

Quantum®



Item #	Model	Capacity	Price
DR7707	Atlas II	2.2GB SCSI	$229.95
DR6521	Viking	4.5GB SCSI	$399.95
DR6522	Viking (Wide)	4.5GB SCSI	$399.95
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DR5830	Atlas II	9GB SCSI	$829.95
DR5829	Atlas II (Wide)	9GB SCSI	$849.95

Western Digital

Item #	Model	Capacity	Price
DR6103	W/D Enterprise	2.17GB	$369.95
DR6107	W/D Enterprise (Wide)	2.17GB	$399.95
DR6106	W/D Enterprise	4.36GB	$559.95
DR6110	W/D Enterprise (Wide)	4.36GB	$589.95
DR8020	W/D Enterprise	9.1GB	$859.95
DR7975	W/D Enterprise (Wide)	9.1GB	$899.95

IBM

Item #	Model	Capacity	Price
DR6958	UltraStar 2ES	4.33GB	$499.95
DR6717	UltraStar 2ES (Wide)	4.33GB	$549.95

Seagate

Item #	Model	Capacity	Price
DR6719	ST32272N Barracuda	2.26GB	$349.95
DR6589	ST32272W Barracuda (Wide)	2.26GB	$359.95
DR6586	ST34572N Barracuda	4.55GB	$559.95
DR8073	ST34572W Barracuda (Wide)	4.55GB	$569.95
DR6334	ST34501N Cheetah	4.55GB	$629.95
DR5641	ST19171N Barracuda	9.1GB	$789.95
DR5637	ST19171W Barracuda (Wide)	9.1GB	$819.95
DR6567	ST19101N Cheetah	9.1GB	$999.95
DR8022	ST19101W Cheetah	9.1GB	$1039.95

LACIE LIMITED

Item #	Model	Capacity	Price
DR6711	External	2.1GB	$339.00
DR6710	External	4.3GB	$429.00

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iomega

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RDR4840	Jaz Internal Refurbished	1.0GB	$199.95*
RDRI1119	Jaz External Refurbished	1.0GB	$199.95*
DR4840	Jaz Internal	1.0GB	$279.95
DRI1119	Jaz External	1.0GB	$299.95
DR5279	Zip Insider	100MB	$149.95
DR4602	Zip Parallel Port	100MB	$139.95
DRI1050	Zip Parallel SCSI	100MB	$139.95
DRI2274	Zip Plus Drive	100MB	$199.95

Item #	Model	Capacity	Price
DR7342	SparQ Internal	1.0GB	$199.95
DR7341	SparQ External	1.0GB	$199.95
DR5178	EZFlyer 230 Parallel	230MB	$149.95
DR5193	EZFlyer 230 SCSI	230MB	$149.95
DR6120	SyJet External Parallel	1.5GB	$299.95
DR6376	SyJet Internal IDE	1.5GB	$299.95

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DR7373	PC-DVD	$229.99

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Item #	Model	Price
DR7994	CD Writer 7000 Internal 2x2x6	$419.95
DR7995	CD Writer 7000 External 2x2x6	$499.95

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Item #	Model	Price
DR7099	4x2x6 Internal ATAPI	$629.95
DR7709	CD-RW 4x2x6 External SCSI	$729.95

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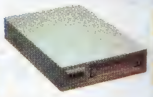
Item #	Model	Price
DR6298	CD-RW 2x2x6 Internal SCSI	$499.00
DR7344	CD-RW 2x2x6 External SCSI	$599.00

TAPE DRIVES

Seagate



Item #	Model	Capacity	Price
DR4769	TapeStor 3200 Int.	3200MB	$179.95*
DR5708	TapeStor 3200 Ext.	3200MB	$199.95
DR7692	TapeStor 8000 Int. SCSI	8GB	$379.95*
DR7693	TapeStor 8000 Int. IDE	8GB	$319.95*
DR5182	TapeStor 8000 Ext. SCSI	8GB	$449.95*
DR6553	Scorpion DAT Ext.	4GB	$699.95
DR6550	Scorpion DAT Int.	8GB	$799.95
DR6551	Scorpion DAT Ext.	8GB	$899.95

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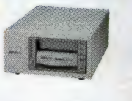
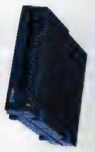


Item #	Model	Capacity	Price
DR7181	Colorado 5GB Internal	5GB	$229.95*
DR7180	Colorado 5GB External	5GB	$269.95*
DR7697	Surestore DAT 24i Internal	24GB	$1429.95*
DR7696	Surestore DAT 24e External	24GB	$1549.95*

iomega



Item #	Model	Capacity	Price
DR6983	Ditto Max Internal	7GB max.	$199.95
DR6986	Ditto Max External	7GB max.	$199.95
DR6985	Ditto Max Professional Internal	10GB max.	$299.95
DR6984	Ditto Max Professional External	10GB max.	$299.95

SONY

Item #	Model	Price
DR5755	StorStation 2.0GB	$99.95*

*Price after mfr's $50 mail-in rebate. Price before rebate is $149.95. Offer expires 12/31/98. Rebate coupon included in box.

LS-120 DRIVES

IMATION

Item #	Model	Price
DR6756	LS120 SuperDisk External	$99.95*

*Price after mfr's $50 mail-in rebate. Price before rebate is $149.95. Offer expires 9/30/98.

MO DRIVES

FUJITSU

Item #	Model	Price
DRI1818	Dynamo 640 External	$499.00
DR7316	Dynamo 640si Internal	$459.95

Media

CD-RECORDABLES

Maxell

ME6352	74 min. CD-R 650MB	$3.99
BN4627	74 min. CD-R 650MB (10-pack w/ $20 rebate)	$9.90*
ME7488	74 min. CD-R 650MB Printable White with Jewel Case	$2.99
ME7489	74 min. CD-R Printable White (100-pack spindle)	$249.00
ME7490	74 min. CD-R Blank Shiny Gold (100-pack spindle)	$249.00
ME7491	74 min. CD-R Printable Gold (100-pack spindle)	$249.00

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ME6314	74 min. CD-R 650MB	$3.49
ME7577	74 min. CD-R 650MB Printable White Surface	$2.99
BN4464	74 min. CD-R 650MB (10-pack w/ $20 rebate)	$9.90*
ME6809	74 min. CD-R 650MB (50-pack w/ Storage Box)	$109.50
ME7492	74 min. CD-R 650MB (150-pack no spindle)	$268.50

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Verbatim

ME7350	74 min. CD-RW 650MB	$25.99

TDK

ME7665	74 min. CD-RW 650MB	$25.99

LS-120 SUPER DISK

Imation

ME6858	Super Disk 120MB	$17.99

Maxell

ME7085	Super Disk 120MB	$17.99

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Imation

ME6431	Travan 1 800MB	$25.99
ME6471	Travan 2 1.6GB	$31.99
ME6472	Travan 3 3.2GB	$33.99
ME7648	Travan 5GB 5.0GB	$34.99
ME6513	Travan 8GB (TR-4) 8.0GB	$39.99

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ME7498	Ditto Max 3.5GB	$24.99
ME7699	Ditto Max 7.0GB	$34.99
ME7698	Ditto Max 10.0GB	$39.99

Sony

ME7667	SuperStation 3.0GB	$19.99
ME7666	SuperStation 5.0GB	$25.99

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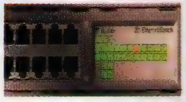

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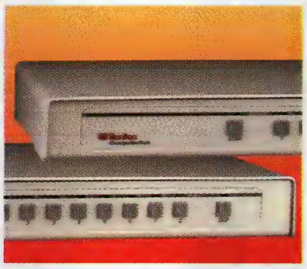

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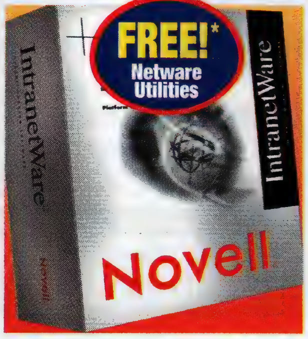

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DEC1473: 3Com EtherLink III 10BT ISA	$59.95
DEC1474: 3Com EtherLink III 10BT ISA 5-pack	$269.95
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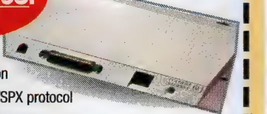

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ACC3259	Battery for Compaq Armada 4100, 4125, 4120, 4130	$379.95
ACC3267	Battery for Hitachi Plus, Pro (Nimh)	$179.95
ACC3268	Battery for HP OmniBook 300,425, 430	$64.95
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ACC3261	Battery for Toshiba Tecra 700, 710, 720, 730, 740	$199.95
ACC3262	Battery for Toshiba T600, T610CT, 620	$349.95
ACC3263	Battery for Toshiba T220, 400 400CDT, 405, 410, 420, 415, 425, 430	$149.95
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BND2453	AHA-2940U Bundle: Seagate Barracuda 4.35GB HD	$869.95
EX6683	AHA-2940UW Ultra-Wide SCSI Adapter (PCI)	$279.95
EX8565	AHA-2940U2W Ultra2-Wide SCSI Adapter (PCI)	$449.95
EX8621	APA-1450B SlimSCSI PCMCIA for Removable Drives	$99.95
EX8622	APA-1460B SlimSCSI PCMCIA Fast SCSI-2 Adapter	$179.95

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AC22800	Battery for IBM Thinkpad 365E/365X/365XD	$109.95
ACC3077	Battery for IBM Thinkpad 380	$109.95
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AC22266	Battery for Toshiba Satellite 100/105CD/110/115CS/2100-215	$99.95
ACC3074	Battery for Toshiba Satellite Pro 400/470/480	$179.95
AC22248	Battery for Toshiba Satellite 1900/10/50/60/2400/2450/4700/4300/4850	$99.95
AC22267	Battery for Toshiba Satellite 4500/2600	$169.95
AC24326	Battery for Toshiba Tecra 500cs, 510CS (Li-ion)	$219.95
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EX7704	OverDrive 166MHz Pentium MMX	$189.95
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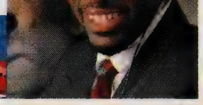

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Item #	Description	Price
PR12724:	HP DeskJet400L	$149.95
PR12302:	HP DeskJet672C	$199.95
PR12125:	HP DeskJet 694C	$239.00
PR11412:	HP DeskJet340C Portable	$269.95
PR12864:	HP DeskJet 722C	$299.00
PR11792:	HP DeskJet870Cse	$299.95
PR12840:	HP DeskJet 890Cse	$399.95
PR12433:	HP DeskJet 1000Cse	$399.95
PR13488:	HP DeskJet 1120Cse NEW!	$499.95
PR11386:	HP DeskJet 1600c	$1349.95
PR12310:	HP LaserJet 6Lse	$399.95
PR12301:	HP LaserJet 6Pse	$799.95
PR12977:	HP LaserJet 4000se	$1149.99
PR12978:	HP LaserJet 4000T	$1259.00
PR12975:	HP LaserJet 4000N	$1420.00
PR12976:	HP Laserjet 4000TN	$1599.00
PR13440:	HP Laserjet 5000 (wide format) NEW!	$1499.95
PR12435:	HP LaserJet 5si	$2449.95
PR12116:	HP LaserJet 5si Nx	$2719.95
PR12434:	HP LaserJet 5si Mx	$3149.95
PR12436:	HP Color LaserJet 5	$3959.00
PR12437:	HP Color LaserJet 5M	$4999.00
PR12755:	HP OfficeJet 500	$349.00
PR12303:	HP OfficeJet 570	$399.00
PR12808:	HP OfficeJet 600	$499.00
COP0102:	HP Color Copier 120	$599.00
COP0101:	HP Color Copier 210	$799.00

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Item #	Description	Price
PR12297:	MultiPass C3000	$349.00
PR12972:	MultiPass C5000	$499.00
PR13314:	MultiPass L6000 (laser) NEW!	$599.00

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Item #	Description	Price
PR12427:	MFC 7000FC	$699.00*
PR13146:	MFC 4550 Plus Laser	$699.00

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Item #	Description	Price
PR13345:	Phaser 350 NEW!	$2499.00
PR13346	Phaser 360 NEW!	$3699.00
PR12675:	Phaser 560	$3999.00
PR12827:	Phaser 560F (extended features)	$4999.00
PR12824:	Phaser 300X/A (tabloid size)	$4995.00
PR12863:	Phaser 300X/B (extended features)	$5995.00

NEC TECHNOLOGIES

Item #	Description	Price
PR12617:	Superscript 150C	$99.95**
PR12618:	Superscript 750C	$149.95††
PR12119:	Superscript 660 Plus Laser	$199.95†
PR11494:	Superscript 860 Laser	$329.95†
PR12349:	Superscript 1260 Laser	$649.95
PR12350:	Superscript 1260N (Network)	$949.95

*Price after $100 manufacturer's mail-in rebate. Price before rebate is $799. Ask for coupon # AA0992. Offer expires 7/31/98.

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Item #	Description	Price
PR11317:	Labelwriter XL	$139.95
PR11316:	Labelwriter XL Plus	$199.95
PR 12877:	Labelwriter XL Turbo	$249.95

SEIKO INSTRUMENTS LABEL PRINTERS

Item #	Description	Price
PR11319:	Smart Label Printer E230	$139.95
PR12731:	Smart Label Printer 120	$199.95
PR12730:	Smart Label Printer 220	$239.95

OKIDATA PRINTERS

Item #	Description	Price
PR13381:	Okipage 2020	$199.95
PR11702:	Okipage 4W	$199.95
PR12706:	Okipage 6e	$299.95
PR12802:	Okipage 6EX	$429.95
PR11771:	ML320 Turbo Dot Matrix	$319.95
PR11302:	ML590 Dot Matrix	$439.95
PR11373:	OL810e	$599.95
PR12830:	OkiOffice 44 (multifunction)	$599.95
PR12120:	Okipage 16n	$899.95

LEXMARK COLOR PRINTERS

Item #	Description	Price
PR12686:	Color JetPrinter 1000	$99.95§
PR13316:	Color JetPrinter 5700 NEW!	$249.95
PR12973:	Color JetPrinter 7200	$299.95§§
PR12351:	Color Laser Printer 1275	$3299.00¥

§ Price after $40 manufacturer mail-in rebate coupon. Price before rebate is $139.95. Offer expires 4/30/98. Ask for coupon AA0878.

§§ Price after $50 manufacturer mail-in rebate coupon. Price before rebate is $349.95. Offer expires 4/30/98. Ask for coupon AA0920.

¥ Limited time offer. Expires 4/31/98.

EPSON STYLUS COLOR 800 PRINTER

EPSON

- Prints up to 8ppm black/7ppm color
- Optional internal Ethernet and LocalTalk.

Only

$349!

Item # PR12127

Item #	Description	Price
PR12126:	Stylus Color 600	$249.00
PR12380:	Stylus Photo Printer	$399.95
PR12430:	Stylus Color 1520	$799.95
PR12407:	Stylus Color 3000	$1999.95

1440 x 720dpi
Color
Grand Opening!

BJC 80 PORTABLE COLOR PRINTER

Canon

• 720 x 360dpi • 4ppm black, 2.5ppm color

Only

$299^95!

Item # PR12562

Item #	Description	Price
PR12561:	BJC 250 Color Printer	$149.95
PR12560:	BJC 4300 Color Printer	$199.95
PR12559:	BJC 4304 Photo Color Printer	$239.95
PR13388:	BJC 7004 Color Printer NEW!	$349.00

New Drop Modulation Technology for sharp, rich color!

LEXMARK OPTRA S LASER PRINTERS

LEXMARK

The new Optra S 1620 Printer features: 16ppm and true 1200 x 1200dpi with PostScript Level 2.

As low as

$999^95!

Item # PR13032

Item #	Description	Price
PR13032:	OPTRA S 1620 NEW!	$999.95
PR13033:	OPTRA S 1620N NEW!	$1299.95
PR12342:	Optra S 1650	$1099.95
PR12344:	Optra S 1650N	$1399.95
PR13034:	Optra S 2420 WAS: ~~$1899.95~~	$1549.95
PR12340:	Optra S 2450 WAS: ~~$2179.95~~	$1999.95

New Low Pricing!
Optra

Optra S 2450 shown.

MINOLTA LASER PRINTERS

MINOLTA
THERE'S NO IMAGE WE CAN'T IMPROVE

As low as

$299^95!

Item # PR12684

Item #	Description	Price
PR12684:	PageWorks 6L(6ppm/600dpi)	$299.95
PR12683:	PageWorks 6E (6ppm/1200dpi)	$399.95
PR12681:	PageWorks 12 (12ppm/1200dpi)	$779.95*
PR12685:	PageWorks 20 ~~(20ppm/~~wide format)	$1019.95
PR12682:	Color PageWorks	$2899.00
PR13273:	Color PageWorks PS (PS LvL2/Mac/PC)	$3299.00

*Limited Time Offer!

Color PageWorks shown.

Ink & Toner

EPSON

InkJet Cartridges

Item #	Description	Price
PR12202	Stylus Color 400/600/800/1520 Color S020089	$27.95
PR12046	Stylus Color 400/500/600 Photo Black S020093	$24.95
PR12203	Stylus Color 800/N/1520 Black S020108	$27.95

LEXMARK

InkJet Cartridges

Item #	Description	Price
PR12829	High Res. Ink Cartridge F/7000 Black 12A1970	$32.95
PR12828	High Res. Ink Cartridge F/7000 Color 12A1980	$38.95

LEXMARK

Toner Cartridges

Item #	Description	Price
PR12113	Optra E Family Black 69G8256	$59.95
AC22063	Optra S 17.6K Yield Black 1382925	$199.95

HEWLETT-PACKARD

HP - InkJet Cartridges

Item #	Description	Price
PR11364	DJ/DW600/660C/680C Black HP51629A	$26.95
63014	DJ/DW 400/500/Fax/OfficeJet Black HP 51626A	$26.95
67208	DJ800/722C/1000/16000 Black HP 51645A	$29.95
PR11365	DJ/DW 600 Series Color HP 51649A	$29.95
PR11414	DJ 800/1000C/1150C Color HP 51641A	$29.95
1487HP	DJ/DW 300'S/400/500C Color HP 51625A	$27.95

HEWLETT-PACKARD

HP - LaserJet Toner Cartridges

Item #	Description	Price
63200	Series 4/4M/Plus/5/5M Black HP 92298A	$109.00
63179	LaserJet 5P/5MP/6P/6MP Black HP C3903A	$85.50
6315	Laserjet Series 2/2D/3/3D Black HP 92295A	$72.00
63222	Series 5L,5ML,5LX,6L Black HP C3906A	$69.95
63202	Color LaserJet Black HP C3105A	$7.95
63223	Series 5SI, 5SIMX Black HP C3909A	$179.95
63219	Series 4V/MV Black HP C3900A	$154.95
PR13026	LaserJet 4000 10K Yield Black HP C4127X	$124.95

CANON

InkJet Cartridges

Item #	Description	Price
PR12959	BJC-70/80/NoteJet 3CX (BC-11E) Color BC-11E	$44.95
PR12912	BJC 4000'S/MPC2500 (BC-21E) Color BC-21E	$47.95

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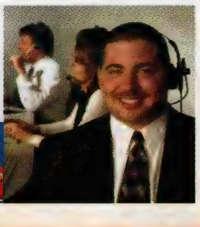

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CTX VL700 17" Monitor

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Committed To eXcellence

Only $419.95!

- 17" (15.7" viewable)
- .28mm dot pitch
- Maximum resolution of 1280 x 1024 @ 66Hz

Ask for item # MON0426.

Optiquest V95 Monitor

Only $759.95!

- 19" (18" viewable)
- .26mm dot pitch
- Maximum resolution of 1600 x 1200 @ 76Hz

OPTIQUEST.

Ask for item # MT1580.

AVerMedia MPEG Wizard

MPEG WIZARD
AVerMedia
AVerMedia

Only $299.95!

- 30 frames-per-second capture rate
- Supports MPEG-1 compression for video/audio capture

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128-bit power for 2-D, 3-D and video!

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VIPER V330
True 128-bit Power for Incredible 2D, 3D & Video
FREE

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- 128-bit multimedia
- 2-D Windows performance
- 4MB 100MHz SGRAM fixed
- Full-screen, MPEG video playback

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See The Difference!™
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OPTIQUEST®

VIEWSONIC GS771 $459.95! Item # MT1853

- 17" (16" viewable) screen size
- Occupies the same deskspace as a 14"
- .27mm dot pitch
- Maximum resolution of 1280 x 1024 @ 66Hz

With Short-neck technology!

OPTIQUEST Q71 Only $389.95! Item # MT1405

- 17" (16" viewable)
- .28mm dot pitch
- Maximum resolution of 1280 x 1024 @ 65Hz

Item	Model	Dot	Resolution	Price
VIEWSONIC				
MT1672	E641; 14"/ 13.1"	.28mm	1024x768@67Hz	$179.95
MT1627	E655; 15"/ 13.8"	.28mm	1280x1024@66Hz	$249.95
MT1537	G771; 17"/ 16"	.27mm	1280x1204@66Hz	$469.95
MT1989	G810 21"/ 20"	.25mm	1600x1200@71Hz	$1049.95
MON0640	PT813 21"/20"	.28AG	1600x1200@85Hz	$1389.95
MT1649	G773 17"/16"	.26mm	1280x1024@66Hz	$489.95
OPTIQUEST				
MT1674	Q41 14"/13.2"	.28mm	1024X768@60Hz	$169.95
MT1451	Q53 15"/ 13.8"	.28mm	1280X1024@60Hz	$219.95
MT1728	V773 17"/18"	.26mm	1280x1024@66Hz	$459.95
MT1581	V115 21"/20"	.26mm	1600x1200@76Hz	$1029.95
Mt1580	V95 19"/18"	.26mm	1600x1200@76Hz	$759.95
14" MONITORS				
MT1379	PHILIPS 104B 14"/13.2"	.28mm	1024X768@67Hz	$159.95
MT2000	PRINCETON E0400 14"/13.4"	.28mm	1024X768 @60HZ	$159.95
MT1849	Power User 14/13.3"	.28mm	1024X768@60Hz	$149.95
15" MONITORS				
MT1415	IBM G52 15"/13.6"	.28mm	1280X1024 85Hz	$299.95
MT1449	VIEW 15GA 15"/14"	.27mm	1280X1024@65 W/SPKRS	$329.95
MT1724	SONY 100ES 15"/14"	.25AG	1024X768@85Hz	$329.95
MT1848	POWERUSER 15"/13.8"	.28mm	1024 X 768@70Hz	$199.95
MON0427	CTX 15"/13.8"	.28mm	1280X1024@66Hz	$249.95
MT1557	MAG DJ530 15"/13.9"	.28mm	1280X1024@65Hz	$269.95
MT1544	NEC A500 15"/13.8"	.28 mm	1280X1024@60Hz	$269.95
17" MONITORS				
MT1759	SONY 200ES 17"/16"	.25AG	1024X768@85Hz	$599.95
MON0458	MITSUBISHI 87TXM 17"/16"	.25AG	1600X1200@66Hz W/MAC ADAPT	$649.95
MT1546	NEC A700 17"/15.6"	.28mm	1280X1024@ 65Hz	$469.95
MT1514	PRINCETON 17"/15.8"	.28mm	1280X1024@76Hz	$389.95
MT1850	POWERUSER 17"/15.8"	.28mm	1280X1024@ 60Hz	$349.95
MT1651	VIEW EA771 17"/16"	.27mm	1280X1024@66 W/SPKRS	$499.95
MT1545	NEC E700 17"/15.6"	.25mm	1600X1200@ 65Hz	$679.95
MON0612	SONY 200GS 17"/16"	.25AG	1280X1024@75HZ W/MAC ADPT	$719.95
19" MONITORS				
MT1468	HITACHI 751 19"/18"	.22mmHOR	1600X1200@75Hz	$879.95
MT1573	PRINCETON E090 19"	.26mm	1600X1200@75Hz	$699.95
MON0587	PHILIPS 109 19"/17.9"	.22HOR	1600X1280@71 W/SPEAKERS	$799.95
MT1714	VIEW G790 19"/18"	.26mm	1600X1280@72HZ	$819.95
MON0630	SONY 400PS 19"/18"	.25AG	1600X1200@75HZ W/ADAPT	$1179.95
21" MONITORS				
MON0457	MBSHI 91TXM 21"/ 19.7"	.28AG	1600X1200@75Hz W/ADAPT	$1269.95
MT1156	VIEW P810 21"/20"	.25mm	1600X1200@76Hz	$1169.95
MT1217	NEC P1150 21"/19.8"	.28mm	1600X1200@75 W/MULTICABLE	$1219.95
MON0631	SONY 500PS 21"/20"	.26AG	1600X1200@85 W/ADAPT	$1799.95
MT1535	HITACHI PRO 800	.22HOR	1600X1200@71Hz	$1269.95

Item	Model	Price
ATI VIDEO CARDS		
EX8806	**NEW!** 3D Charger w/2MB EDO (PCI)	$69.00
EX8805	**NEW!** 3D Charger w/4MB EDO (PCI)	$89.00
EX8804	3D XPRESSION+ w/2MB SDRAM (PCI)	$79.00
EX8803	3D XPRESSION+ w/4MB SDRAM (PCI)	$99.00
EX8808	**NEW!** XPERT XL w/4MB SGRAM (PCI)	$99.00
EX8807	**NEW!** XPERT XL w/4MB AGP (PCI)	$109.00
EX8774	XPERT @ Play w/4MB SGRAM (PCI)	$179.00
EX8775	XPERT @ Play w/8MB SGRAM (PCI)	$229.00
EX8772	XPERT @ Work w/4MB SGRAM (PCI)	$149.00
EX8773	XPERT @ Work w/8MB SGRAM (PCI)	$199.00
EX7766	ALL IN WONDER w/ Director 4.0 & 4MB EDO (PCI)	$199.00
EX8776	**NEW!** ALL IN WONDER PRO w/4MB (PCI)	$189.00
EX8801	**NEW!** ALL IN WONDER PRO w/4MB (AGP)	$269.00
EX8767	**NEW!** ALL IN WONDER PRO w/8MB (PCI)	$299.00
CREATIVE LABS VIDEO CARDS		
EX7667	Graphics Blaster 3D	$99.95
EX8380	Graphics Blaster Extreme Value Edition	$129.95
EX8617	Graphics Blaster Professional Edition	$199.95
EX8761	3D Blaster Voodoo 2 w/8MB	$229.99
EX8762	3D Blaster Voodoo 2 w/12MB	$299.99
DIAMOND MULTIMEDIA VIDEO CARDS		
EX8604	Stealth 3D 2000 PRO w/2MB EDO	$69.95
EX7190	Speedstar 64 w/2MB	$99.95
EX8265	Viper V330 128-Bit w/4MB SGRAM	$199.95
EX7673	Monster 3D 3Dfx Voodoo Accelerator w/4MB	$199.95
EX8763	**NEW!** Monster 3D II 3DFX Voodoo 2 w/8MB	$249.95
EX8280	FireGL 1000 PRO 2D/3D w/8MB SGRAM	$249.95
MATROX MULTIMEDIA		
EX7760	Rainbow Runner TV Tuner (ISA)	$79.95
EX8267	M3D 4MB Game Upgrade	$99.95
EX8159	Mystique 220 w/2MB SGRAM	$109.95
EX8160	Mystique 220 w/4MB SGRAM	$129.95
EX7958	Mystique 220 Business w/2MB SGRAM	$109.95
EX7959	Mystique 220 Business w/4MB SGRAM	$129.95
MY7070	4MB SGRAM Upgrade for Mystique	$99.95
EX7758	Rainbow Runner Video Editing for Mystique	$199.95
EX7957	Millennium II 2D/3D w/4MB WRAM	$199.95
EX7956	Millennium II 2D/3D w/8MB WRAM	$299.95
EX8726	Rainbow Runner Studio F/Millennium II	$219.95
EX8727	Video Graphics and TV Kit	$349.95
SIIG VIDEO CARDS		
EX7030	Aurora 2000 64-Bit w/1MB DRAM	$39.95
EX7029	Aurora 4000 64-Bit w/2MB EDO RAM	$54.95
EX7350	Aurora 4000 PLUS w/4MB EDO RAM	$69.95
STB SYSTEMS VIDEO CARDS		
EX8490	Velocity 128 w/4MB SGRAM	$179.95
EX8493	4MB SGRAM Upgrade for Velocity 128	$99.95

POWER USER PowerUser 15" Monitor

Only $199.95!
Ask for item # MT1848.

- 15" (13.8" viewable)
- .28mm dot pitch
- Maximum resolution of 1024 x 768 @ 60Hz

PRINCETON GRAPHIC SYSTEMS Princeton E090 Monitor

Only $699.95!
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- 19" (18" viewable)
- .26mm dot pitch
- Maximum resolution of 1600 x 1200 @ 75Hz

ViewSonic® See The Difference!™ E771 Monitor

Only $379.95!
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- 17" (16" viewable)
- .27mm dot pitch
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- OnView controls

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Scanners

SHEETFED SCANNERS

Item	Model	Price
IN6226:	Hewlett-Packard 5s	$129.00†
IN6507:	Visioneer PaperPort Strobe Serial	$149.95*
IN6272:	Visioneer PaperPort Strobe	$179.95**

†Price after $70 manufacturer's mail-in rebate. Price before rebate is $199.95. Ask for rebate coupon # AA0970. Offer expires 6/14/98.
*Price after $50 manufacturer's mail-in rebate. Price before rebate is $199.95. Ask for rebate coupon # AAA0615.Offer expires 5/31/98.
**Price after $50 manufacturer's mail-in rebate. Price before rebate is $229.95. Ask for rebate coupon # AAA0615. Offer expires 5/31/98.

FLATBED SCANNERS

Item	Model	Price
IN6534:	Agfa Snapscan 310	$199.95
IN6298:	Agfa Arcus II	$1299.95
IN5992:	Epson Expression 636 Pro **FREE!** Silver-Fast Software!	$1399.95
IN6818:	Hewlett-Packard 5100cse	$299.95
IN6468:	Hewlett-Packard 6100cse	$799.00
IN6675:	Microtek ScanMaker V310	$119.95*
IN6763:	Microtek ScanMaker E3 Plus	$149.95
IN6711:	Microtek Scanmaker V600	$189.95†
IN6118:	Microtek ScanMaker III **WHILE SUPPLIES LAST!**	$1399.95
IN6652:	Umax Astra 610P	$109.95††
IN6651:	Umax Astra 610S	$129.95§
IN6249:	Umax Astra 1200s	$249.95
IN5602:	Umax Powerlook II	$1399.00
IN6459:	Visioneer PaperPort 3000	$99.95§§

*Price after $30 mfr's mail-in rebate. Price before rebate is $149.95. Offer expires 5/15/98. Ask for rebate coupon # AA0968.
†Price after $60 mfr's mail-in rebate. Price before rebate is $249.95. Offer expires 5/15/98. Ask for rebate coupon # AAA0968.
††Price after $20 mfr's mail-in rebate. Price before rebate is $129.95. Offer expires 5/31/98. Ask for rebate coupon # AAA0969.
§Price after $20 mfr's mail-in rebate. Price before rebate is $149.95. Offer expires 5/31/98. Ask for rebate coupon # AAA0626.
§§Price after $50 mfr's mail-in rebate. Price before rebate is $149.95. Offer expires 5/31/98. Ask for rebate coupon # AAA0615.

FILM / PHOTO SCANNERS

Item	Model	Price
IN6458:	Konica Qscan	$799.95
IN5874:	Microtek 35t Plus	$749.95
IN6938:	Nikon LS 20 Coolscan II	$949.95
IN6937:	Nikon LS 1000 Super Coolscan	$1799.95
IN5588:	Polaroid Sprintscan ES	$1299.95
IN5853:	Polaroid Sprintscan 35 Plus	$1799.95

BUSINESS CARD SCANNERS

Item	Model	Price
IN5572:	Seiko Smart Business Card Reader	$149.95
IN6004:	Corex CardScan Plus 300	$269.95

Digital Cameras

DIGITAL CAMERAS

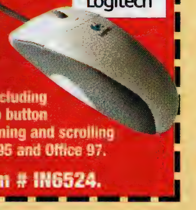
Item	Model			Price
IN6393:	COMPRO INTERNET DIGITAL CAMERA			$69.95*
INP1052:	AGFA EPHOTO 307 DIGITAL CAMERA	2MB		$299.95
IN6714:	AGFA EPHOTO 780 DIGITAL CAMERA	2MB		$499.95
IN6605:	AGFA EPHOTO 1280 DIGITAL CAMERA	4MB		$899.95
IN6192:	CANON POWERSHOT 350 DIGITAL CAMERA	2MB		$399.95
IN6084:	CANON POWERSHOT 600 DIGITAL CAMERA	1MB		$699.95
IN6712:	EPSON PHOTO PC 550 DIGITAL CAMERA	2MB		$299.95
IN6527:	EPSON PHOTO PC600 DIGITAL CAMERA	4MB		$699.95
INP1007:	FUJI DS-7 DIGITAL CAMERA	2MB		$299.95
IN6653:	FUJI DX-7 DIGITAL CAMERA	2MB		$499.95
IN6943:	**NEW!** FUJI DX-9 DIGITAL CAMERA	2MB		$599.95
IN6936:	**NEW!** HP PHOTOSMART C20 DIGITAL CAMERA	4MB		$699.95
IN6306:	HITACHI MPEGIA DIGITAL CAMERA **NEW LOW PRICE!**	260MB	~~was $1799.95~~	$1499.95
IN6895:	**NEW!** KODAK DC200 DIGITAL CAMERA	4MB		$599.95
INP1132:	KODAK DC120 ZOOM DIGITAL CAMERA **NEW LOW PRICE!**	2MB	~~was $799.95~~	$699.95
IN6533:	KODAK DC210 2X ZOOM CAMERA **NEW LOW PRICE!**	4MB	~~was $899.95~~	$799.95
BND2258:	KONICA Q-MINI DIGITAL CAMERA	2MB		$499.95
IN6879:	KONICA QM-100 DIGITAL CAMERA	?MB		$699.95
IN6231:	DIMAGE V DIGITAL CAMERA **NEW LOW PRICE!**	2MB	~~was $499.95~~	$399.95
INP1303:	OLYMPUS D-220L DIGITAL CAMERA	2MB		$399.95
INP1304:	OLYMPUS D-320L DIGITAL CAMERA	2MB		$599.95
IN6659:	OLYMPUS D-500L DIGITAL CAMERA	2MB		$799.95
IN6660:	OLYMPUS D-600L DIGITAL CAMERA	4MB		$1299.95
BND2194:	PANASONIC COOL SHOT WITH MEMORY CARD	2MB		$299.95
BND2195:	PANASONIC COOL SHOT WITH 1.8" COLOR LCD	2MB		$399.95
INP1079:	POLAROID PDC-2000/40 DIGITAL CAMERA	1MB		$1499.95
IN6463:	RICOH RDC-300 DIGITAL CAMERA	4MB		$399.95
IN6201:	RICOH RDC 2E W/LCD COLOR MONITOR	2MB		$499.95
IN6852:	RICOH RDC-300Z	2MB		$499.95
IN6346:	SONY MAVICA MVC-FD5 CAMERA	3.5" FLOPPY		$499.00
IN6403:	SONY MAVICA MVC-FD7 DIGITAL CAMERA	3.5" FLOPPY		$699.00
IN6417:	TOSHIBA PDR-2 DIGITAL CAMERA **NEW LOW PRICE!**	4MB	~~was $499.95~~	$269.95
IN6541:	UMAX PHOTORUN DESKTOP DIGITAL CAMERA	2MB		$249.95
IN6251:	UMAX MDX-8000 DIGITAL CAMERA	2MB		$399.95
IN6359:	VIVITAR VIVICAM 3000 DIGITAL CAMERA	500K		$399.00

*While supplies last.

INPUT DEVICE SPECIALS!

Logitech MouseMan+

Only $59.95!

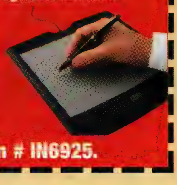


Logitech's MouseMan+™ is equipped with four programmable buttons, including an easily-accessed thumb button and wheel button for zooming and scrolling functionality in Windows 95 and Office 97.

Ask for item # IN6524.

Cross iPen Pro

Does everything a mouse can do, plus more! Includes handwriting recognition software.



Only $139.95!

Ask for item # IN6925.

All-in-Wonder Pro

Only $249!

ATi All-in-Wonder Pro

ATI All-in-Wonder Pro is the complete 7-in-1 TV, video, and graphics multimedia board offering everything you need for explosive multimedia on your PC — all on one card!

Ask for item # EX8776.

Kensington Expert Mouse

Only $99.95!

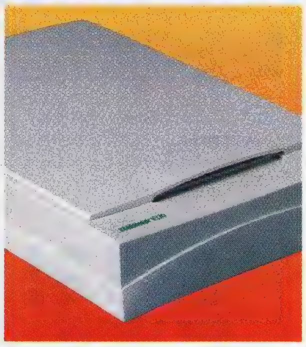
Work faster and smarter. Fingertip control offers accurate and precise movement.

KENSINGTON

Ask for item # IN5557.
(serial and PS/2)

MICROTEK V310 30-BIT SCANNER

MICROTEK
Better Images Through Innovation.



The 30-bit color ScanMaker V310 flatbed scanner combines affordable quality with enhanced parallel port (EPP) installation. It includes Kai's Photo Soap "image cleanup" software from MetaCreations and Ulead iPhoto Express "photo fun" software.

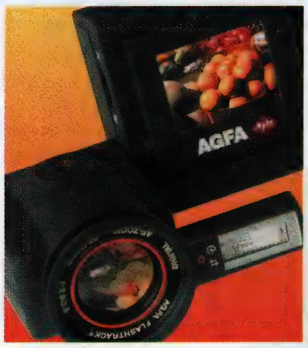
As low as $119.95!*

Item # IN6675

*Price after $30 manufacturer's mail-in rebate. Price before rebate is $149.95. Offer expires 5/15/98. Ask for coupon # AA0968.

AGFA E-PHOTO 1280 DIGITAL CAMERA

AGFA



The Agfa ePhoto 1280 digital camera has all the advanced features you need, 3X Zoom, 4MB Storage card, mega pixel capability (1280 x 960), auto flash, and popular image editing software included.

Only $899.95!

Item # IN6605

NEW! HP SCANJET 5100CSE SCANNER

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Expanding Possibilities

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Authorized Reseller

The HP ScanJet 5100Cse color scanner offers you a complete scanning solution right out of the box. At the touch of a button, it scans and optimizes photos, drawings, and text — or an entire page automatically. Features include: 30-bit color, 300 x 600dpi optical resolution, single pass and HP's intelligent Scanning Technology.

only $299.95!

Item # IN6818

OLYMPUS D-600L DIGITAL CAMERA

OLYMPUS

The Olympus D-600L combines high-resolution (1280 x 1024) with a light-weight built-in 3X zoom lens and TTL (through the lens) single lens reflex type viewfinder. Includes: Multimode auto flash and 4MB SmartMedia card.

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Item # IN6660

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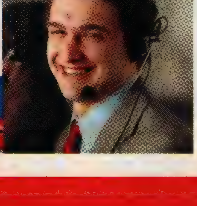

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NEW! Compaq Presario 4880

COMPAQ

Only $2599!

- 400MHz Pentium® II processor with MMX technology
- 12.0GB HDD
- 64MB SDRAM
- 56K modem
- DVD-ROM

Item # CP7194
Monitor sold separately.

Compaq Deskpro 4000

COMPAQ

Only $1639!

- 233MHz Pentium® II processor
- 3.2GB HD
- 32MB SDRAM
- 24X CD-ROM
- Compaq Netelligent 10/100TX UTP controller

Item # CP5823
Monitor sold separately.

HP Pavilion 8140 Desktop

Only $799!*

HEWLETT® PACKARD

- 200MHz Pentium® processor w/MMX
- 32MB EDO RAM
- 4.3GB hard drive
- 24X CD-ROM
- 56K modem

Item # RCP1019.
While supplies last. Monitor sold separately.
*Refurbished by the manufacturer to meet original factory specifications.

TO ORIGINAL FACTORY SPECIFICATIONS REFURBISHED

Inteva Cyrix 6X86-PR266

Only $1099!

- Cyrix 6X86-PR266 processor
- 32MB RAM
- 3.2 GB hard drive
- 24X CD-ROM • 56K modem
- 16-bit sound • 2MB video memory

Monitor sold separately. **Item # CP7104**

PAGE 12 OF 20

FREE COMPAQ V50 MONITOR!*

WHILE SUPPLIES LAST!

Buy the DeskPro 2000 and get a free 15" Compaq V50 monitor! (A $269 value.)

DeskPro 2000 Only $1299!
ASK FOR ITEM # BN5033

*Promotional offer valid through 5/31/98 or while supplies last!

COMPAQ

DeskPro 2000 Pentium® II features:

- 233MHz Pentium® II with MMX™ processor
- 32MB SDRAM (384MB max.)
- 2.1GB hard drive
- Intelligent Manageability

Plus FREE Compaq V50 monitor features:

- 15" flat, square CRT (13.7" viewable)
- .28mm dot pitch
- Plug-n-play ready
- Energy Star compliant
- 1024 x 768 @60Hz max. resolution

COMPAQ DESKPRO 2000 DESKTOPS:

CP5830:	DT, 233MHz Pentium® II, 32MB/384MB, 2.1GB, Matrox MGA 1064-SG, 2MB SGRAM/4MB	$1299*
CP5829:	DT, 233MHz Pentium® II, 32MB/384MB, 3.2GB, 24X, Matrox MGA 1064-SG, 2MB SGRAM/4MB	$1499*
CP5828:	DT, 266MHz Pentium® II, 32MB/384MB, 3.2GB, 24X, Matrox MGA 1064-SG, 2MB SGRAM/4MB	$1709*
CP5827:	MT, 266MHz Pentium® II, 32MB/384MB, 3.2GB, 24X, Matrox MGA 1064-SG, 2MB SGRAM/4MB	$1739*
CP5826:	MT, 300MHz Pentium® II, 32MB/384MB, 3.2GB, 24X, Matrox MGA 1064-SG, 2MB SGRAM/4MB	$1999*

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HEWLETT® PACKARD

- 266MHz Pentium® II processor • 4.0GB HD
- 32MB SDRAM (192MB max.)
- 512KB cache • 24X CD-ROM • 16-bit sound
- S3 Trio 64V2 graphics with 2MB video memory
- Includes HP enhanced keyboard with hot buttons
- Microsoft Word '97 software pre-installed

Only $1659!
Item # CP7084

HP MONITORS As low as $229.95! Item # MT7723

Monitor sold separately.

NEW! HP VECTRA VL7 SERIES

HEWLETT® PACKARD

- 233MHz Pentium® II processor
- 32MB RAM • 3.2GB hard drive
- Includes Windows95 • 512K Cache

Only $1349!
Item # CP7132

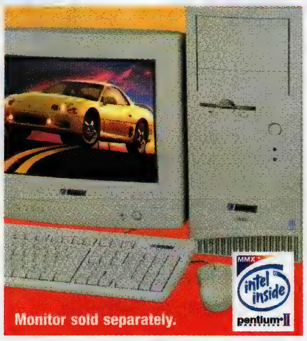
Monitor sold separately.

MONORAIL 7200 DESKTOP

monorail

- 266MHz Pentium® II processor
- 4.0GB Hard Drive • 32MB SDRAM
- 24X CD-ROM • 10/100BTX Ethernet
- DMI 2.0 Compliant

Only $1499!
Item # CP7170



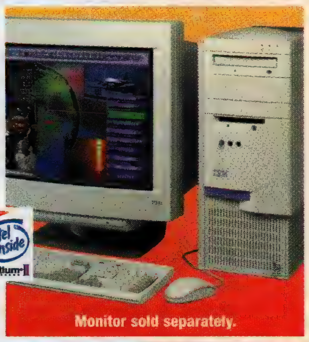
Monitor sold separately.

IBM PC 300GL SYSTEM

IBM®

- 233MHz Pentium® II processor w/MMX
- 4.2GB HDD • 32MB RAM (max. 256MB)
- Cirrus AGP graphics GD5465
- 512KB Level 2 Cache • 6 bays/6 slots

Only $1329!
Item # CP6958



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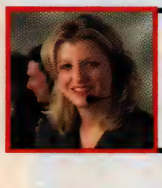

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COMPAQ Compaq Deskpro Systems

Item #	Model	Case	Processor	Slots/Bays	RAM/Max	HDD	CD-ROM	Cache	Graphics	O/S	Price
CP5252	DP2000	DT	Pentium 200MHz w/MMX	5X5	16/384MB	2.1GB	Opt.	256K	S3 Trio 64V2/GX	Win 95	$899
CP5247	DP2000	MT	Pentium 200MHz w/MMX	5X5	32/384MB	3.2GB	16X	256K	S3 Trio 64V2/GX	Win 95	$1179
CP5830	DP2000	DT	Pentium II 233MHz	5X5	32/384MB	2.1GB	Opt.	512K	Matrox MGA 1064/SG	Win 95	$1299
CP5250	DP2000	DT	Pentium 233MHz w/MMX	5X5	32/384MB	3.2GB	16X	256K	S3 Trio 64V2/GX	Win NT	$1199
CP5828	DP2000	DT	Pentium II 266MHz	5X5	32/384MB	3.2GB	24X	512K	Matrox MGA 1064/SG	Win NT	$1709
CP5826	DP2000	MT	Pentium II 300MHz	5X5	32/384MB	3.2GB	24X	512K	Matrox MGA ID4/5G	Win NY	$1999
CP5256	DP4000	DT	Pentium 200MHz w/MMX	5X4	32/384MB	2.4GB	Opt.	512K	S3 VIRGE/GX	Win 95	$1149
CP5822	DP4000	DT	Pentium II 233MHz	5X4	32/384MB	2.4GB	Opt.	512K	Matrox MGA 1064/SG	Win NT	$1369
CP5253	DP4000	DT	Pentium 233MHz w/MMX	5X4	32/384MB	3.2GB	16X	512K	S3 VIRGE/GX	Win 95	$1489
CP5824	DP4000	DT	Pentium II 266MHz	5X4	32/384MB	3.2GB	24X	512K	Matrox MGA 1064/SG	Win NT	$1789
CP5809	DP4000	MT	Pentium II 266MHz	8X5	32/384MB	3.2GB	24X	512K	Matrox MGA 1064/SG	Win NT	$1869
CP5811	DP4000	DT	Pentium II 300MHz	5X4	32/384MB	3.2GB	24X	512K	Matrox MGA 1064/SG	Win NT	$2089
CP6825	DP4000	DT	Pentium II 333MHz	5X4	32/384MB	3.2GB	24X	512K	Matrox MGA 1064/SG	Win NT	$2389
CP5835	DP6000	DT	Pentium II 266MHz	5X4	32/384MB	2.1GB	24X	512K	Matrox Millennium-II	Win NT	$2149
CP5832	DP6000	MT	Pentium II 266MHz	8X5	64/384MB	4.3GB	24X	512K	Matrox Millennium-II	Win NT	$2589
CP5833	DP6000	DT	Pentium II 300MHz	5X4	64/384MB	4.3GB	24X	512K	Matrox Millennium-II	Win NT	$2839
CP6822	DP6000	MT	Pentium II 333MHz	8X5	64/384MB	4.3GB	24X	512K	Matrox Millennium-II	Win NT	$3099

DP4000 and DP6000 models include Compaq Netelligent 10/100TX embedded UTP Controller.

HEWLETT® PACKARD HP Brio & Vectra Series

Item #	Model	Case	Processor	Slots/Bays	RAM/Max	HDD	CD-ROM	Cache	Video Card	O/S	Price
CP5764	8014	MT	Pentium 200MHz w/MMX	5X6	16/128MB	2.1GB	—	256K	S3Trio 64V2	WIN95	$899
CP5767	8017	MT	Pentium 233MHz w/MMX	5X6	16/128MB	3.2GB	—	256K	S3Trio 64V2	WIN95	$1129
CP7030	8316	MT	PentiumII/233MHz	5X6	32/192MB	4.0GB	—	512K	S3Trio 64V2	WIN95	$1299
CP7031	8317	MT	PentiumII/266MHz	5X6	32/192MB	4.0GB	—	512K	S3Trio 64V2	WIN95	$1499
CP7032	8336	MT	PentiumII/233MHz	5X6	32/192MB	4.0GB	24X max	512K	S3Trio 64V2	WIN95	$1529*
CP7033	8338	MT	PentiumII/300MHz	5X6	32/192MB	8.0GB	32X max	512K	S3Trio 64V2	WIN95	$1969*
CP7034	8379	MT	PentiumII/333MHz	5X6	64/192MB	8.0GB	32X max	512K	Matrox Millennium AGP	WIN95	$2489**
CP6464	VE4	DT	Pentium 200MHz w/MMX	5X5	16/192MB	2.1GB	—	256K	S3Trio 64V2	WIN95	$989
CP6465	VE4	DT	Pentium 200MHz w/MMX	5X5	16/192MB	2.1GB	—	256K	S3Trio 64V2	WIN95	$1059†
CP6466	VE4	DT	Pentium 200MHz w/MMX	5X5	32/192MB	3.2GB	—	256K	S3Trio 64V2	WIN95	$1099
CP6467	VE4	DT	Pentium 200MHz w/MMX	5X5	32/192MB	2.1GB	24X	256K	S3Trio 64V2	WIN95	$1229
CP7132	VL7	DT	NEW! Pentium II 233MHz		32MB	3.2GB	Optional	512K	CL Laguna 3D	WIN95	$1349†
CP7131	VL7	DT	NEW! Pentium II 233MHz		32MB	3.2GB	Optional	512K	CL Laguna 3D	WIN NT	$1399
CP7128	VL7	DT	NEW! Pentium II 266MHz	4X4	64MB	4.3GB	24X	512K	Matrox Millennium II	WIN NT	$2299
CP7125	VL7	MT	NEW! Pentium II 266MHz	6X6	64MB	6.4GB	24X	512K	Matrox Millennium II	WIN NT	$2399
CP7130	VL7	MT	NEW! Pentium II 333MHz	6X6	64MB	6.4GB	24X	512K	Matrox Millennium II	WIN NT	$2699

*Models 8336, 8338 include MS Word 97 pre-installed.
**Model 8339 includes 56K modem and MS Word 97 pre-installed.
†Includes 10/100BTX Ethernet.

IBM. IBM Desktop Series

Item #	Model	Processor	Slots/Bays	RAM/Max	HDD	CD-ROM	Cache	Graphics	O/S	Case	Price
CP5035	300GL	Pentium/166MMX	4X4	16/128MB	2.5GB EIDE	Optional	256K L2	Cirrus GD5465	95	DT	$849
CP5955	300GL	Pentium/200MMX	4X4	16/128MB	2.5GB	Optional	256K L2	Cirrus GD5465	95	DT	$969
CP5956	300GL	Pentium/233MMX	4X4	32/128MB	2.5GB EIDE	Optional	256K L2	Cirrus GD5465	95	DT	$1169
CP5952	300GL	Pentium/200MMX	4X4	32/128MB	2.5GB EIDE	16X	256K L2	Cirrus GD5465	95	DT	$1239
CP6959	300GL	Pentium II/233MMX	4X4	16/256MB	2.5GB EIDE	Optional	512K L2	Cirrus GD5465	95	DT	$1189
CP6958	300GL	Pentium II/233MMX	6X6	32/256MB	4.2GB EIDE	Optional	512K L2	Cirrus GD5465	95	MT	$1329
CP6955	300GL	Pentium II/266MMX	4X4	32/256MB	4.2GB EIDE	Optional	512K L2	Cirrus GD5465	95	DT	$1449
CP6957	300GL	Pentium II/266MMX	6X6	32/256MB	4.2GB EIDE	Optional	512K L2	Cirrus GD5465	95	MT	$1529
CP7067	300GL	Pentium II/266MMX	4X4	32/256MB	4.2GB EIDE	32X	512K L2	Cirrus GD5465	95	DT	$1669
CP7065	300GL	Pentium II/300MMX	4X4	32/256MB	4.2GB EIDE	Optional	512K L2	Cirrus GD5465	95	DT	$1769
CP7058	300GL	Pentium II/300MMX	6X6	32/256MB	4.2GB EIDE	Optional	512K L2	Cirrus GD5465	NT	MT	$1829
CP7068	300GL	Pentium II/333MMX	6X6	64/256MB	4.2GB EIDE	32X	512K L2	Cirrus GD5465	NT	MT	$2449

All monitors sold separately unless stated otherwise.

MAY DESKTOP SPECIALS!

COMPAQ Deskpro 2000

Small Business Edition

Only $1999!*

Includes V50 15" Monitor!

- 266MHz Pentium® II processor
- 32MB SDRAM • 4.3GB HDD • 24X CD-ROM
- MS Office 97 Small Business Edition pre-installed • 512KB Cache

*While supplies last. **Item # BN5032**

IBM PC 300GL Mini-tower

Only $1829!

- 300MHz Pentium® II processor w/MMX
- 4.2GB EIDE HDD
- 32MB RAM (256MB max.)
- Microsoft Windows NT

Ask for item # CP7058.
Monitor sold separately.

HP Vectra VE4

Only $1059!

- 200MHz Pentium® processor w/MMX
- 10/100BTX Ethernet
- 2.1GB HDD
- 16MB (192MB max.)
- S3 Trio 64V2

Ask for item # CP6465*.
*While supplies last. Monitor sold separately.

IBM PC 300GL Desktop

Only $1189!

- 233MHz Pentium® II processor w/MMX
- 2.5GB EIDE HDD
- 16MB RAM (256MB max.)
- Windows 95

Ask for item # CP6959.
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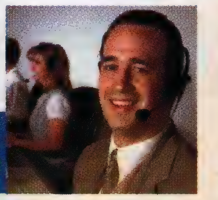

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- 75MHz Pentium® processor
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- Windows 95

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IBM®

Item # CP5624

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- 5.1GB hard drive
- 32MB RAM (256MB max.)
- 14.1" XGA TFT
- 33.6Kbps modem

*Shown with optional CD-ROM.

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20X CD-ROM Only $299.95 Ask for item # DR7082.

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ACER

- 166MHz Pentium® processor with MMX
- 16MB RAM • 20X CD-ROM
- 2.1GB hard drive
- 33.6Kbps modem
- 12.1" SVGA DSTN display

Ask for item # CP6875.

VisionBook Plus 5280

Only $1999!
HITACHI

- 233MHz Pentium® processor with MMX
- 3.2GB hard drive
- 32MB RAM • 20X CD-ROM
- 56.6Kbps modem
- 12.1" HPA display

Ask for item # CP7036.

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IBM®
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COMPAQ PRESARIO 1215
ONLY $1499!

- 180MHz MediaGX MMX processor
- 1.6GB hard drive • 24MB RAM
- 14X CD-ROM • 12.1" HPA display
- 56Kbps modem

ASK FOR ITEM # CP6984.

TOSHIBA SATELLITE PRO 440CDX
ONLY $1299!

- 133MHz Pentium® MMX processor
- 1.3GB hard drive • 16MB RAM
- 10X CD-ROM
- 12.1" FastScan display

ASK FOR ITEM # CP5209.

IBM THINKPAD 380X
ONLY $2389!

- 233MHz Pentium® processor w/MMX
- 32MB RAM • 3.2GB hard drive
- 24X CD-ROM • 12.1" HPA display

ASK FOR ITEM # CP7144.

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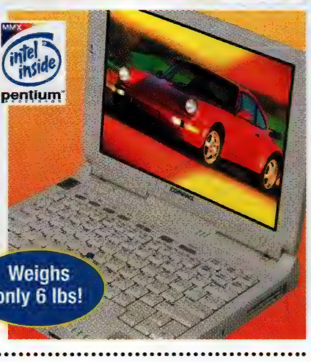
COMPAQ ARMADA 7330T



COMPAQ

- 150MHz Pentium® processor with MMX
- 2.1GB hard drive • 16MB RAM
- 33.6Kbps modem card • 20X CD-ROM
- 12.1" SVGA TFT color display
- Windows 95 or Windows NT

Only $1399!*
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*While supplies last!

Weighs only 6 lbs!

IBM THINKPAD 560X

IBM®

- 200MHz Pentium® processor with MMX
- 2.1GB hard drive
- 32MB RAM (96MB max.)
- 12.1" SVGA HPA display

Only $2389!
Item # CP7147

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*Toshiba Satellite Pro 440CDX. Ask for item # CP5209.

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IBM® ThinkPad Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Batt.	Weight.	Warr.	Price
CP5619	380E	150MHz Pentium® MMX	16/80	2.1	12.1" SVGA FRSTN	Opt.	PCMCIA	NiMH	6.7	1yr.	$1399
CP5620	380ED	166MHz Pentium® MMX	16/80	2.1	12.1" SVGA FRSTN	20X	PCMCIA	Li-Ion	7.0	1yr.	$1699
CP5621	380ED	66MHz Pentium® MMX	16/80	3.3	12.1" SVGA TFT	20X	PCMCIA	Li-Ion	7.1	1yr.	$2639
CP7144	380X	233MHz Pentium® MMX	32/96	3.2	12.1" SVGA HPA	24X	PCMCIA	Li-ion	7.1	1yr.	$2389
CP7145	380X	233MHz Pentium® MMX	32/96	4.0	12.1" SVGA TFT	24X	PCMCIA	Li-ion	7.1	1yr.	$3149
CP7146	380X	266MHz Pentium® MMX	32/96	5.1	12.1" SVGA TFT	24X	PCMCIA	Li-ion	7.1	1yr.	$3599
CP7147	560X	200MHz Pentium® MMX	32/96	2.1	12.1" HPA	Opt.	PCMCIA	Li-ion	4.1	1yr.	$2389
CP6195	560X	233MHz Pentium® MMX	32/96	4.0	12.1" SVGA TFT	Opt.	PCMCIA	Li-Ion	4.1	1yr.	$3389
CP5623	770	233MHz Pentium® MMX	32/256	4.0	13.3" XGA TFT	Opt.†	PCMCIA	Li-Ion	7.4	3yr.	$4149
CP5624	770	233MHz Pentium® MMX	32/256	5.0	14.1" XGA TFT	Opt.†	33.6	Li-Ion	7.8	3yr.	$4899

†Optional CD or DVD ROM Drives

TOSHIBA Satellite Pro and Tecra Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Price
CP5209	Satellite Pro 440CDX	133MHz Pentium® MMX	16MB/144MB	1.3GB	12.1" FAST SCAN	10X	Optional	$1299
CP5210	Satellite Pro 440CDT	133MHz Pentium® MMX	16MB/144MB	1.3GB	12.1" SVGA TFT	10X	33.6Kbps	$1699
CP6488	Satellite Pro 460CDX	166MHz Pentium® MMX	32MB/144MB	2.0GB	12.1" FAST SCAN	10X	Optional	$1899
CP7142	Satellite Pro 470CDT	200MHz Pentium® MMX	32MB/144MB	2.0GB	12.1" SVGA TFT	10X	33.6Kbps	$2799
CP6487	Satellite Pro 480CDT	233MHz Pentium® MMX	32MB/144MB	3.8GB	12.1" SVGA TFT	10X	33.6Kbps	$3399
CP6802	Tecra 550CDT	266MHz Pentium® MMX	32MB/160MB	3.8GB	12.1" XGA TFT	20X	56.6Kbps	$3799
CP5142	Tecra 740CDT	166MHz Pentium® MMX	16MB/144MB	3.0GB	13.3" XGA TFT	10X	28.8Kbps	$2499
CP6483	Tecra 750CDM	233MHz Pentium® MMX	32MB/160MB	4.7GB	13.3" XGA TFT	20X	56.6Kbps	$4799
CP6482	Tecra 750DVD	233MHz Pentium® MMX	64MB/160MB	4.7GB	13.3" XGA TFT	DVD	56.6Kbps	$5299

COMPAQ Armada Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Price
CP5292	1530DM	133MHz Pentium® MMX	16MB/80MB	1.4GB	12.1" SVGA CSTN	10X	33.6Kbps	$1399
CP5855	1540DM	150MHz Pentium® MMX	16MB/80MB	1.4GB	12.1" SVGA CSTN	10X	33.6Kbps	$1799
CP6706	1560DM	166MHz Pentium® MMX	16MB/80MB	3.1GB	12.1" SVGA CSTN	20X	56.6Kbps	$1899
CP7161	1571DM	200MHz Pentium® MMX	32MB/96MB	3.2GB	12.1" SVGA CSTN	20X	56.6Kbps	$2299
CP5856	1590DMT	166MHz Pentium® MMX	16MB/80MB	2.1GB	12.1" SVGA CTFT	10X	33.6Kbps	$2599
CP6701	1592DMT	233MHz Pentium® MMX	32MB/96MB	3.1GB	12.1" SVGA CTFT	20X	56.6Kbps	$3199
CP7163	1598DMT	266MHz Pentium® MMX	32MB/96MB	4.0GB	13.3" XGA TFT	20X	56.6Kbps	$3599

HITACHI VisionBook Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Price
CP7035	VisionBook Plus 5260	166MHz Pentium® MMX	16MB/144MB	2.1GB	12.1" HPA DSTN	20X	56.6Kbps	$1699
CP7036	VisionBook Plus 5280	233MHz Pentium® MMX	32MB/144MB	3.2GB	12.1" HPA DSTN	20X	56.6Kbps	$2299
CP6965	VisionBook Pro 7370	200MHz Pentium® MMX	32MB/144MB	3.2GB	12.1" SVGA TFT	20X	56.6Kbps	$2999
CP7037	VisionBook Pro 7580	233MHz Pentium® MMX	32MB/144MB	4.0GB	12.1" XGA TFT	20X	56.6Kbps	$3299
CP7069	VisionBook Pro 7590	266MHz Pentium® MMX	48MB/144MB	4.0GB	13.3" XGA TFT	20X	56.6Kbps	$4499

ACER Extensa Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Price
CP6875	Extensa 393C	166MHz Pentium® MMX	16MB/128MB	2.1GB	12.1" SVGA DSTN	20X	33.6Kbps	$1299
CP6874	Extensa 393T	166MHz Pentium® MMX	32MB/128MB	2.1GB	12.1" SVGA TFT	20X	33.6Kbps	$1699
CP6877	Extensa 394T	200MHz Pentium® MMX	32MB/128MB	3.2GB	12.1" SVGA TFT	20X	33.6Kbps	$2399
CP6878	Extensa 395T	233MHz Pentium® MMX	32MB/128MB	3.2GB	12.1" SVGA TFT	20X	33.6Kbps	$2599

digital Ultra Series

Item #	Model	Processor	RAM/Max	HDD	Display	CD	Modem	Price
CP6659	Ultra 2000	166MHz Pentium® MMX	32MB/144MB	3.0GB	14.1" XGA TFT	20X	33.6Kbps	$3299
CP7121	Ultra 2000	233MHz Pentium® MMX	32MB/144MB	4.0GB	14.1" XGA TFT	24X	56.6Kbps	$4799
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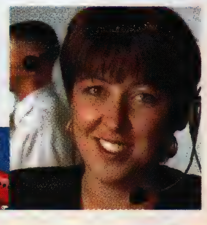

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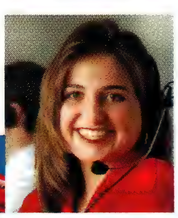

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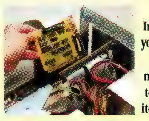

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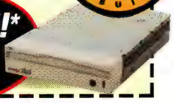

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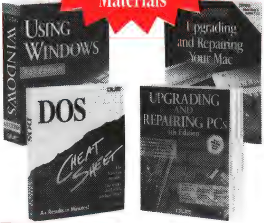

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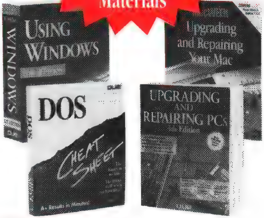

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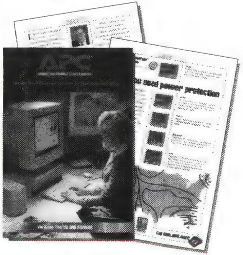

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